



The CHEMIST AND DRUGGIST

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OCTOBER 3 1953

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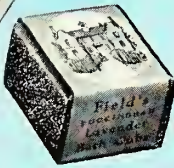
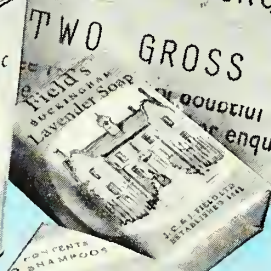
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

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The CHEMIST AND DRUGGIST

Volume 160

OCTOBER 3, 1953

No. 3841

Doctors Report on N.H.S. INCREASE IN DRUG BILL FORECAST

THE result of a postal inquiry on the National Health Service conducted by the British Medical Association among 12,879 doctor general-practitioner principals, and commenced on July 12, 1951, has just been published. Answers were received from 12,657 doctors (representing replies from 72 per cent. of those who received questionnaires).

The General Practice Review Committee of the B.M.A. have also issued a report based on the answers received, and on a personal survey undertaken by an assistant secretary of the Association.

The Committee admits that over-prescribing plays "at least some part" in the magnitude of the nation's drug bill, but it does not believe that that is entirely the fault of general practitioners. A potent factor is the demand by patients for expensive preparations that have been recommended by hospitals or have been selected by the patients themselves in response to hearsay. The Committee feels, however, that the nation's drug bill will continue to increase. At present it is difficult for the local medical committees to act in the matter because of the "backlog" in the pricing bureaux. The Committee urges doctors to exercise the greatest care in prescribing to counteract that "inevitable" rise. Discrimination in prescribing should be more widely taught in medical schools, and it should be realised by all that economical prescribing is usually good prescribing, the Committee adds. Overprescribing in the Committee's opinion includes the prescribing of expensive equivalents instead of comparatively inexpensive medicaments, and the use of more popular, more complicated, and more expensive remedies in the place of simple inexpensive drugs which are therapeutically as effective. Some of the inexpensive drugs were proved remedies before the introduction of newer discoveries, it points out.

The Committee believes that many doctors might with advantage review their prescribing habits, including a study of the National Formulary, 1952. The Formulary forms "an excellent basis for the self-education of the doctor in the art of prescribing at once economically and efficiently." There is danger, for example, of "sulpha" drugs taking the place of diagnosis.

Summaries of answers by doctors to the postal inquiry are given below:—

The Committee asked a group of 366 doctors whether they found any

widespread tendency among their patients to regard them as "suppliers" of medicaments rather than as medical advisers. The result was as follows:—

"No," 15 per cent.; "A few patients so regard doctor," 46 per cent.; "Many patients so regard doctor," 39 per cent.

The complaints were made that the patients ask for drugs or appliances which they have prescribed for themselves or for medicine for a self-diagnosed complaint. Three doctors mentioned a written shopping-list presented to them, which made them feel like grocers.

A group of doctors questioned on preferences for private or N.H.S. patients gave the following answers: Preference for (a) Private patients only, 15 per cent.; (b) private and N.H.S. patients, 66 per cent.; (c) N.H.S.

RETENTION FEE TO BE RAISED TO £4 4s.

Pharmaceutical Society's proposed new by-laws

THE Council of the Pharmaceutical Society has approved the form of new by-laws—including one which will raise the pharmacist's personal retention fee from £2 to £4 4s.

The Council are proposing formally to make the new by-laws immediately the Supplemental Charter for which the Society has petitioned is granted and when the Pharmacy Act, 1953 comes into force. That is expected to be by the end of 1953. Apart from minor drafting amendments the proposed new by-laws, compared with those placed before the special general meeting of members in May 1951 (C. & D., 1951. I. 686), contain only modifications permitted or necessitated by the Pharmacy Act, 1953. The modifications are:—

Personal retention fee raised from £2 to £4 4s., no fee payable in certain circumstances by pharmacists over 70; reduced fee of £2 2s. payable by overseas pharmacists.

Slight increases made in registration fees consequential upon the proposed increase in the personal retention fee.

A new section (section XXI), which relates to the register of pharmaceutical

patients only 19 per cent.

A group of practitioners were asked whether they thought that, in their own practices, the refusal of the Government to allow private patients to obtain drugs under the N.H.S. had been a factor in causing patients to claim treatment under the Service who would otherwise have preferred to remain private patients. They replied as follows:—

"No," 24 per cent.; "A few," 26 per cent.; "Many," 24 per cent.; "Yes," 26 per cent.

Thirty-eight per cent. of a group of 362 practitioners questioned about health centres favoured the centres, 53 per cent. were against them, and 9 per cent. indifferent.

The reports are published in the *British Medical Journal* and *B.M.J. Supplement*, September 26.

POLIO EPIDEMIC Emergency in Coventry

BECAUSE of the large number of cases of poliomyelitis in Coventry, the local management committee of the Regional Hospital Board is treating the outbreak as an epidemic. From noon on September 24, Coventry isolation hospital, which has dealt with 270 cases of the disease since June, ceased to take any more. New cases are being diverted to the isolation hospital at Little Bromwich, Birmingham.

chemists. The by-laws in it which are intended to implement Section 3 of the Pharmacy Act, 1953, and to replace certain statutory provisions which will be repealed by that Act are as follows:—

1. Each entry in the register of pharmaceutical chemists shall include the full name of the person concerned, his address, a distinguishing registration number, the date of registration, and particulars of such person's qualification for registration.

2. The entries in the register shall be in alphabetical order according to surnames.

3. The annual register of pharmaceutical chemists shall contain the particulars and be in the form set out in the third schedule to the by-laws.

4. The entries in each annual register of pharmaceutical chemists shall be arranged in alphabetical order according to the surnames.

Section XXII is new. The by-law in it prescribes the transitional period during which a certificate of registration as a chemist and druggist is deemed to be a certificate of registration as a pharmaceutical chemist.

A copy of the proposed new by-laws is obtainable on request by any member of the Pharmaceutical Society.

FILM RELEASES

Medical and surgical subjects.

A FILM entitled "Nalorphine (Lethidrone)" has been produced by the Wellcome film unit in collaboration with The Wellcome Research Laboratories. It describes the action of nalorphine (N-allylnormorphine) in antagonising the effects of morphine and other drugs with a similar action. The film is in colour, with sound, and runs for ten minutes. It demonstrates the dramatic recovery which results when intravenous nalorphine is given to dogs deeply narcotised with morphine, methadone (Physeptone), and thiambutene (Themalon)—a new analgesic recently introduced into veterinary practice. The film may be borrowed on application to the Public Relations Officer, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.1.

The first film in a new series produced by the film unit of Allen & Hanburys, Ltd., Bethnal Green, London, is devoted to a new surgical procedure for peptic ulcer. It is a simpler method than that that has been used for many years, and has been made possible through the relaxation under anaesthesia that can be obtained with modern anaesthetics. It requires the use of a newly-designed surgical instrument. The method involves extending the duodenum back to the stomach remnant and was elaborated by Mr. F. A. Henley, Hunterian Professor of Surgery, The Royal College of Surgeons. The film is intended primarily for a surgical audience, is in colour, and is particularly notable for its clarity.

SCOTTISH NEWS

Executive Councils' Report

THE annual report of the executive committee of the Scottish Association of Executive Councils shows that although the number of prescriptions decreased during the year ended March 31, payments to chemists increased because of rising costs. On the other hand the dental and ophthalmic services cost less. The report, which was presented to the Association's conference in St. Andrews recently, recalls that at last year's conference at Inverness, many representatives expressed deep concern at the rising cost of prescribing, and the view was that additional guidance was necessary. The number of prescription forms presented for dispensing during the year was 13,643,000, a decrease of 1,157,429 compared with the previous year. The estimated number of prescriptions contained in those forms was 20,152,000, a decrease of 569,000. Payments to chemists totalled £5,638,789, of which the public, in charges, contributed £451,665. The payments in the previous year totalled £5,378,112. The report states that the committee have continued to press for information to enable executive councils to ascertain the general trend of prescribing and to consider whether a doctor is prescribing with reasonable regard for economy and the best traditions of his profession. The Department of Health for Scotland are of the opinion that the recently published report of the Cohen Committee classifying proprietary preparations

(C. & D., July 25, p. 73) will do much to improve the position. The committee welcome that report but remain convinced that the statistical information called for can alone ensure that the service does not carry an undue burden through improper or excessive prescribing. A motion submitted by the Glasgow Executive Council expresses the view that the provision of area statistics is essential for the adequate investigation of doctors' extravagant prescribing.

Health Centre Hours Decision

EDINBURGH Executive Council have, it was stated at a recent meeting, informed the Department of Health for Scotland that no evidence has been produced to justify the opening of the pharmacy in the Sighthill Health Centre from 6 to 9 p.m. to benefit patients attending evening surgeries (see C. & D., August 15, p. 156). No reply to the Council's decision had been received from the Department of Health. The Council based their decision on the information of the pharmaceutical contractors in Sighthill, who reported that over a period of years they had not had any demand for a late pharmaceutical service. If that demand was for the benefit of the patients, evidence would have to be produced to support it. The local pharmaceutical committee had stated that if the demand was being created purely to increase "business" at the pharmacy of the Health Centre, then they strongly opposed the proposal as unfair competition. Furthermore, the establishment of consulting rooms at the Health Centre was merely a regrouping of the existing medical practices, and that surely did not create more prescribing or increase in any way the number of "urgent" prescriptions.

Perth Half-Day Closing

AT a recent meeting of Perth and Kinross Executive Council it was decided to ask Perth's sixteen chemists to agree on some arrangement whereby prescriptions can be dispensed on Wednesday afternoons. For the past few years one shop has remained open on Wednesday afternoons, but the proprietor has indicated that, as from October 7, he intends to fall in line

with the other pharmacists and observe the half-holiday arrangements. The clerk to the council (Mr. G. D. Fraser) said that the number of prescriptions dispensed on an average on Wednesday afternoon in winter was about thirty to thirty-five, and in summer about half that number. He was not prepared to say any of those prescriptions were urgent.

Cost of Slimming Preparations

AT a recent meeting of Glasgow Executive Council it was decided to ask the Department of Health for Scotland to supply details of expenditure on slimming tablets prescribed in the city.

IRISH NEWS

Letter on Prescribing Economy

THE chief medical officer of the Ministry of Health and Local Government, Northern Ireland (Dr. James Boyd) has written to all general practitioners in Northern Ireland, seeking their co-operation in securing economies in the costs of medicines supplied under the National Health Service, without detriment to the treatment of patients. His letter refers to the report of the Cohen Committee and to the request that doctors should refrain from prescribing any of the preparations in categories 5 and 6 (see C. & D., July 25, p. 76). It points out that in the event of any of those preparations being ordered on the official form, the General Health Services Board and the Ministry would be failing in their duty if, in the absence of sound reasons to the contrary, they did not surcharge the excess cost.

No Council Nominations

NO candidates having been nominated for the seven rotational vacancies on the Council of the Pharmaceutical Society of Ireland, the seven outgoing councillors all of whom went forward for election, will be declared elected for another period of three years at the annual meeting of the Society in October. The seven councillors are Messrs. D. J. Kennelly, Peter Fullam, P. F. McGrath, Gerald O'Neill, N. A. McKane, Maurice Power, and C. D. O'Shea.



ULSTER CHEMISTS' GOLFING SOCIETY: Mr. N. Dechan driving from first tee in annual tournament at Belvoir Park, Belfast. (See p. 339).

NEWS IN BRIEF

Summer Time Ends.—Summer time ends on Sunday, October 4, at 2 a.m. Clocks should be put back one hour at close of business on October 3.

D.D. Authorities Withdrawn.—The Home Secretary has withdrawn from William George Barrie, M.B., Ch.B., whose registered address is Holmhead, Kilbirnie, Ayr, the authorities to possess and supply Dangerous Drugs.

Retail Sales in July.—Recently issued Board of Trade figures show that sales of chemists' goods by large retailers were 6 per cent. higher in July than in June and 6 per cent. higher than in July 1952. Comparative figures for independent retailers were 8 per cent. higher and 1 per cent. lower respectively.

Fire Destroys Mail.—A fire at the factory of Gale & Mount, Ltd., at 37 Rothschild Road, London, W.4, recently, did local damage, destroying mail received at the factory between September 18 and 20. The company requests anyone who has not received a reply to a communication that might have been received at the factory between those dates to send a copy of their letters.

End of Sugar Rationing.—Sugar rationing ended on September 26. All statutory controls over the distribution, use and prices of sugar, syrup and treacle are abolished and price control of invert sugar is discontinued from September 27. Orders giving effect to those decisions have been made by the Minister of Food (Major Gwilym Lloyd-George); they are the Sugar (Revocation) Order, 1953 (S.I. 1953 No. 1420), and the Glucose and Syrup and Treacle (Revocation) Order, 1953 (S.I. 1953 No. 1421). Orders revoked are: the Sugar (Rationing) Order, 1953, as amended; the Sugar (Prices) Order, 1952, as amended; the Invert Sugar Order, 1951, as amended; the Syrup and Treacle Order, 1950, as amended; the Glucose Order, 1951. The Food Rationing (General Provisions) Order, 1953 (S.I. 1953, No. 792), has been amended so as to free licensees of catering establishments from the necessity of keeping a record of hot beverages served.

SPORT

Golf. — ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, annual competition for the Richard Jordan memorial trophy at Orsett golf club on September 20. Winner: A. Taylor, two up on bogey.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, competition for Imperial Chemical (Pharmaceuticals), Ltd. trophy and prize at Sandiway on September 16. Winner: H. Oldham. Second prize: C. Finney.

ULSTER CHEMISTS' ASSOCIATION, captain's day at Belvoir Park, Belfast, on September 23. The captain's prize was won by J. McIlvogue with W. J. Thornton runner-up. B. Flatley had the best gross score and the consolation prize went to N. Deehan. The captain (Mr. H. McCracken) presided at dinner at which the one hundred guests included the captain (Mr. W. Keys) and secretary (Mr. P. H. Fahey) of the Irish Chemists' Golfing Society, and Mr. C. Gordon-Rattie (president, Ulster Chemists' Association). Officers of the Ulster Chemists' Golfing Association elected for 1954 were:—Captain, C. Hall; Treasurer, J. Jeffers, Secretary, W. H. Boyd.

TOPICAL REFLECTIONS

By Xrayser

The F.I.P. Assembly

The large attendance at the fifteenth assembly of the *Fédération Internationale de Pharmacie* (p. 305) is one of the most significant facts of the year. Thirty years ago the Federation met in London; the number of members present was, you recorded, about fifty, and the proceedings lasted only two days. More British pharmacists would probably have attended but for the fact that the sixtieth annual meeting of the British Pharmaceutical Conference was held simultaneously; even so, the number would have hardly been comparable with that of this year's assembly in Paris. Your report of the London assembly (*C. & D.*, 1923.II.112-16) indicates that, in spite of an abnormally small gathering, the proceedings were typical in subject-matter and in discussion. Nomenclature, proprietary articles and the sale of poisons were the principal subjects considered. Two features of this year's crowded programme (pp. 311-13) afford particular satisfaction. One is the conferring of distinctions on Federation officials by the Government of France; the other is the share of British members in the presentation of monographs. The popularity of this assembly means, among other things, that pharmacists of all countries are drawing closer together, thus setting an example to others.

A Health Insurance Statement

That the General Assembly of the F.I.P. favours a wide range of subjects for discussion is shown in the nine-point scheme (p. 311) drawn up by a committee on health insurance. Reading between the lines, I gather that conditions in some Continental countries have prompted the insertion of certain clauses; but most clauses, being statements of principles, are of general application. Specially welcome is the emphasis on freedom. Clause I demands "the independence of the pharmacist on the scientific and moral plane." Clauses 4 and 7 warn against making quality "the butt of commercial competition," and suggest a scale of fees "corresponding to the pharmacist's scientific and moral responsibilities." Clause 9 stipulates that hospitals and similar institutions without a pharmacist must obtain stocks through, with inspection of stocks by, a pharmacist. It is understandable that a division of opinion has arisen on hospital dispensing for out-patients.

Danger in Health Schemes

A serious warning against hasty action in national health schemes, and the kind of regimentation that often goes with it, was given by Sir Earle Page, the Australian Minister of Health, in an address to delegates at the recent World Medical Association Assembly at The Hague (p. 306). In such schemes, he said, "pressure to coerce the whole field at once has led to chaos": experiments on these lines in various countries are "oversimplified solutions," and "must be resisted at all costs." In Australia, Sir Earle Page added, government "interference and control" are minimised. It is of interest to compare this forthright statement with a British Medical Association report that has just been summarised in daily newspapers (see also p. 337). The authors note "some deterioration" in the relationship between doctors and patients in this country since the introduction of the National Health Service. While not condemning the system root and branch, the committee responsible for the report finds that "there is undoubtedly an increased tendency for the general practitioner to be regarded as a 'supplier of medicaments' rather than as a medical adviser." One practitioner is quoted as saying: "Some of the patients now merely include me with their errands: rations from the grocer, a call at the shoe repairer's, and a bottle of cough mixture at the doctor's." Organised as they are, medical men can fight their own battles; yet there is something here for pharmacists to think about. This report, with its implied doubt about the future of freedom in medicine, links up with the remarks of Sir Earle Page at The Hague and with the F.I.P. statement referred to in my second paragraph. And we know the price of freedom.

PERSONALITIES

MR. LOUIS S. CRUICKSHANK, M.P.S., F.R.S.A. (general manager for Pakistan, May & Baker, Ltd.) has recently been awarded the Interpretship Diploma in Urdu of the Institute of Philology, Lahore.

MR. HUGH B. DUNN, M.P.S., Glasgow, has received the award of the Papal medal *Bene Merenti* for his work in the development of good international pharmaceutical relationships. Mr. Dunn read a paper in Rome in 1951 on the operation of the National Health Service. The paper has since been translated into French, Dutch and Italian.

MR. M. A. NICHOLAS (chairman of Aspro, Ltd.) has left Britain for India to visit the new Indian factory of the group. He is then to travel to Ceylon to attend a conference of directors and executives of Aspro, Ltd., and of associate and subsidiary companies in France, Australia, South Africa and India on marketing methods in Eastern territories. After the conference Mr. Nicholas will fly to Australia and return to Great Britain via South Africa where he will visit the Aspro manufacturing plant in Durban. MR. J. W. JAMISON (managing director of Aspro, Ltd.) will complete his second world tour after the conference when he visits Australia and Canada to study the progress that has been made by Aspro in those countries.

MR. ELMER H. BOBST (president of William R. Warner & Co., New York, U.S.A.) arrived in Great Britain on September 28. He is making a six week tour of Western Europe to observe local health conditions, to investigate research on cancer and other diseases, and to exchange information with medical and govern-

ment authorities. Mr. Bobst is national campaign chairman and chairman of the American Cancer Society and during his term of office the Society's budget has grown from one million to almost 20 million dollars annually. Mr. Bobst is a director of the World Medical Association, and a founder member of the U.S. Committee of the W.M.A., and is active in the World Committee for Medical Education. He has been cited by the Government of the United States for his services.

DR. HARRY HEPWORTH, O.B.E., F.R.I.C. (delegate managing director of Imperial Chemical (Pharmaceuticals), Ltd.) retired on September 30. He has been connected with I.C.I. and its parent companies for nearly forty years and his name will always be associated with the formative years of I.C.(P.). Dr. Hepworth joined Nobel Explosives Co. in 1915 and worked at Ardeer, Stevenson, Ayrs, where he was founder secretary of the Ardeer Chemical Club. Two years after the formation of I.C.I., he was transferred to the new company's technical department in London to look after heavy organic chemicals, and in 1934 he became a delegate director of the I.C.I. dyestuffs division. In 1936 I.C.I. started a project on pharmaceuticals with which Dr. Hepworth has been concerned since. When Imperial Chemical (Pharmaceuticals), Ltd. was formed in 1942, Dr. Hepworth became a delegate director and, later, delegate managing director. In 1945 he led the British mission on pharmaceuticals to Germany and in 1950 he was awarded the O.B.E. For about twenty-five years Dr. Hepworth has represented I.C.I. on the group B committee of the Association of British Chemical Manufacturers of which he was chairman for some years.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

HORNES DISPENSING CHEMISTS, LTD. (P.C.).—Capital £1,000. To take over the business of dispensing chemists carried on at 45 Upper Jackson Street, Manchester. Directors: Edgar Horne, Ph.C., and Fanny Samuel.

J. MCGREGOR (CHEMIST), LTD. (P.C.).—Registered in Belfast. Capital £5,000. To carry on the business of chemists and druggists, etc. Directors: John McGregor, Ph.C.N.I., John K. McGregor, and Florence M. McGregor, R.O.: 30 Botanic Avenue, Belfast.

ESSPRO, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers, merchants, dealers, to process, purchase and re-sell chemicals, etc. Directors: Walter Richter and Cecille Tauber, R.O.: 110 Marlborough Road, London, N.19.

WM. J. FISK, LTD. (P.C.).—Capital £800. To carry on the business of wholesale, manufacturing, and dispensing chemists and druggists, etc. Directors: William J. Fisk, M.P.S. (chairman), Annie Fisk, and George Duncan, M.P.S. (managing). R.O.: 241 Portwood Road, Southampton.

BURNSWAY, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in disinfectants of all kinds, insecticides, antiseptic fluids, etc. Directors: Horace Burns, Frances E. Burns and Maurice A. Greenway, R.O.: 144 Streetsbrook Road, Shirley, Birmingham.

Company News

IMPERIAL CHEMICAL INDUSTRIES, LTD.—The interim dividend on the ordinary capital is being raised by 1 per cent. in respect of the year ending December 31.

REXALL DRUG CO., LTD.—Mr. M. L. Daniels retired from the position of managing director on September 30 and is being succeeded by Mr. A. F. Quantrell. Mr. Daniels is continuing as chairman of the board.

Voluntary Liquidation

SHAW & JAMISON, LTD., wholesale chemists and druggists, Townhall Street, Belfast. Liquidator: Mr. C. V. Smylie, F.C.A., 13 Donegall Square North, Belfast.

MARRIAGE

TAYLOR — MURRAY. — At Dornoch Cathedral on September 19, Bernard Michael Court Taylor, M.P.S. (younger son of the late Mr. J. S. Taylor, M.P.S.), 50 Croslands Park, Barrow-in-Furness, Lancs, to Elizabeth G. Murray, M.A., Bishopfield, Dornoch.

DEATHS

BOYS — On September 12, Mr. Frank Arthur Boys, M.P.S., 85 Highgate Road, London, N.W.5. Mr. Boys qualified in 1905.

FREEMAN. — On September 23, Mr. William Marshall Freeman, 14 Avenue Road, London, N.W.8, aged eighty-six. Mr. Freeman, who qualified as a pharmacist in 1890, was called to the Bar by the Middle Temple in 1904. From 1916 until 1920 he was Civil Liability Commissioner, and in 1920 became Counsel to the Ministry of Food on the Midland Circuit. Until 1925 he was also chairman of the Wholesale Profiteering Tribunal and of various other Board of Trade committees, as well as several Ministry of Labour committees during the 1914-1918 war. He was author of many legal text-books and a contributor to the *Encyclopædia Britannica*, *Halbury's Statutes of England*, and the *Encyclopædia of English Law*. From 1925 until recently, he was Recorder of Stamford.

WHITEOAK. — On September 24, suddenly, Mr. Charles Kenneth Whiteoak, M.P.S., aged forty-nine. Mr. Whiteoak collapsed and died at his pharmacy at 6 Burnley Road, Mytholmroyd, Yorks. He was a native of the locality, and after training at Manchester University, and qualifying in 1925, he opened a shop in Burnley Road, Mytholmroyd, in 1930. He is survived by his widow, two sons and a daughter.

BUSINESS CHANGES

MR. JOHN BROOKS, M.P.S., has resigned the superintendency of Manchester and Salford Pricing Bureau to open a pharmacy.

MINING & CHEMICAL PRODUCTS, LTD., have removed their offices to Cecil Chambers, 86 Strand, London, W.C.2. The telephone number (Temple Bar 6511) is unchanged.

MR. THOMAS P. WALKER, an (Irish) qualified assistant to a pharmaceutical chemist, is opening a wholesale and retail medical and veterinary supplies store shortly, at Oliver Plunkett Hill, Fermoy, co. Cork, Eire.

Appointments

JAMES L. HATRICK & CO. (LONDON), LTD., 58 Britton Street, Clerkenwell, London, E.C.1, have appointed Mr. George Gay their works manager from September 25.

G. D. SEARLE & CO., LTD., 17 Manchester Street, London, W.1, have appointed Messrs. G. W. Russel, C. Evan Pilgrim, M.P.S., A. R. Carmichael, A. J. Wilson, M.P.S., R. M. Martin and D. Jeffrey their medical representatives.

AMERICAN CHEMISTS IN CONFERENCE

National Meeting Discusses Antibiotics and Other Topics

A NEW way to preserve flesh foods, such as meat and fish, by the use of antibiotic ice was reported by three Canadian biochemists at the 124th national meeting of the American Chemical Society, in Chicago, Illinois, recently. Drs. H. L. A. Tarr, J. Boyd and H. M. Bissett of the Pacific Fisheries Experimental Station, Vancouver, British Columbia, said that flake ice containing only one part of aureomycin in a million parts of ice shows great promise as a practical means of lengthening the storage life of fish. The antibiotic content further preserved the fish by its action against bacterial spoilage.

Antibiotics as Preservatives.

Of fifteen antibiotics investigated, only aureomycin and terramycin were effective in the preservation of flesh foods. Aureomycin was the most effective. Aureomycin has also been used to preserve whole eviscerated fish by immersing the fish, shortly after capture, into a solution of the antibiotic, and then icing them in the usual way with ordinary ice. Fish have also been stored in cold sea water containing the antibiotic. Those methods all show promise.

Special diets combined with other treatments such as x-rays and tumour-fighting chemicals may prove valuable against cancer, but so far attempts to starve cancer to death have failed, the meeting was told by Dr. Albert Tannenbaum, director of cancer research in the Michael Reese Hospital, Chicago, Illinois. Animal experiments and laboratory research show that changes in dietary protein can "strikingly modify" the course of tumours in x-irradiated animals, according to Dr. Tannenbaum, and the "inhibitory influence" of a drug called azaquinine can be enhanced by non-toxic doses of vitamin antagonists.

At present, however, "there is little indication that practical measures for controlling the growth of cancers can be achieved through modification of the diet alone," he said. "Numerous dietary studies help to emphasise one prominent aspect of cancer growth, that, generally speaking, it is progressive even under conditions of marked loss of body weight and poor nutritional state—in other words, cancers grow at the expense of the host." Although early studies showed that restriction of caloric intake retarded the establishment and growth of transplanted tumours in experimental animals and sometimes inhibited their spread, the speaker said, "at best the life span is only moderately increased."

Three chemists from Hoffmann-La Roche, Inc., Nutley, New Jersey, Drs. Thomas S. Gardner, Edward Wenis, and John Lee, reported that a new tobacco-derived compound, thioisonicotinamide, has shown relatively high activity against tuberculosis in mice. In laboratory tests on animals the compound was found to be ten times more potent against tuberculosis than is para-amino salicylic acid. Although the new compound is chemically rela-

ted to isoniazid it was found in the tests to be only about one-half as active as isoniazid against tuberculosis.

Chemists of the Commercial Solvents Corporation, Terre Haute, Indiana, and the University of Chicago have prepared radioactive penicillin-G to simplify the analysis of a fermentation broth containing the drug. They explained that the isotope dilution method has been a useful tool in evaluating yields across various steps of the penicillin recovery process. The original radioactive penicillin was made by feeding to the mould in the fermentation vat a compound which included radioactive carbon. The mould "digested" the compound (sodium phenylacetate) and included the carbon¹⁴ in the penicillin-G. The radioactive penicillin-G was then purified. In employing the radioactive penicillin to make analyses of large batches of broth, liquors, extracts and final products, the chemists found that they could determine the amount of penicillin-G present to within 1 or 2 per cent.

New Antispasmodic Drugs.

A team of chemists from the Lake-side Laboratories, Milwaukee, Wisconsin, told the meeting that a series of chemical compounds derived from oatmeal show much promise for use as ulcer drugs. Several of the new compounds show anti-spasmodic activity several times greater than that of the ulcer drug atropine, but without its side effects. Another chemical in the same amino alcohol group appears to be a potent, long-lasting local anaesthetic. Clinical trials are still required. A number of those new compounds, known technically as N-alkyl-3-piperidinols, proved more powerful, in animal experiments, than atropine and had "a more selective effect," by-passing undesirable side-effects, according to Dr. John H. Biel.

Recent studies have shown that ordinary soaps are not germicidal and if any germs are killed by soap it is probably only accidental, according to a paper presented by J. V. Karabinos and H. J. Ferlin of the Blockson Chemical Co., Joliet, Illinois. Any germ-killing power is most likely due to the presence in soaps of free fatty acids, the speakers said. Certain of those fatty acids possess "quite marked germicidal activity" against a number of bacteria, including *Staphylococcus aureus*.

The development of vanishing needles which can deposit radioactive phosphorus in a tumour and then dissolve in body fluids, was reported at the meeting by Commander H. C. Dudley of the U.S. Naval Hospital, St. Albans, New York, where the work was carried out. The needles permit radiation effects at any desired location with a minimum of damage to adjacent tissues and may be used under conditions where other forms of radiation therapy are not feasible, the speaker said. He emphasised that the findings are the result of studies on experimental animals, and that the technique has

not yet been tried clinically in the treatment of any patient. The needles are made by melting a mixture of germanium dioxide and titanium phosphate at high temperature. Threads can be withdrawn from the molten mixture and solidified into glass-like needles less than four-hundredths of an inch in diameter. The germanium compound is non-toxic, is relatively unaffected by radioactivity, and is slowly dissolved and eliminated by the body. The titanium phosphate can be made from radioactive phosphorus which delivers radiation to destroy malignant tissue, lasts about the right length of time for treatments—fourteen days—and is safe to use with a minimum of shielding for the persons handling it. The chief problem connected with the clinical use of radioactive phosphorus, the Navy biochemist said, has been the tendency of the phosphorus compounds themselves to dissolve in the body or work their way into the blood plasma, where they cause serious difficulties by destroying tissues. Moreover, Commander Dudley said, the radioactive needles can be used in the study of the function of specific areas of the brain through the destruction of a small locus of tissue, or they can be used in place of radium, cobalt or radon seeds in experimental studies of radiation on malignant tissue. The chief advantage of the needles is that they do not require to be removed.

Sir Robert Robinson of Oxford University, Nobel prize winner and internationally known authority on vitamins, hormones, and other natural chemicals, was awarded the highest honour in American chemistry, the Society's Priestley medal, at a general assembly. The presentation was made by Professor Farrington Daniels (president of the American Chemical Society and chairman, department of chemistry, University of Wisconsin).

LEGAL REPORT

Unauthorised D.D. Supplies. — An assistant nurse, Patricia Brenda Harding, Westlands Brook Farm, Oaken-gates, Salop, was charged at Wolverhampton magistrates' court recently with having procured for herself pethidine hydrochlorine without authority. A police superintendent said Harding entered a chemist's shop at Wolverhampton and presented a National Health prescription made out in another name and purporting to be signed by a doctor. The prescription was for twelve 2 c.c. ampoules of pethidine hydrochlorine solution. She was told that the drug was in short supply and was given nine ampoules, and was asked to return the following Monday for the remaining three. One of the staff on making an entry in the Dangerous Drugs Register noticed that the signature did not correspond with that of the prescriber. A detective met Harding when she collected the remaining three ampoules of the drug on the Monday. Harding was put on probation for two years and ordered to pay 15s. costs.

TRADE NOTES

Product Discontinued. — Glaxo Laboratories, Ltd., Greenford, Middlesex, are discontinuing penicillin oily Injection, B.P. Addendum 1951.

Fob Vanity Case.—The fob vanity case illustrated in *C. & D.*, September 26, p. 321 is by Coty (England), Ltd.

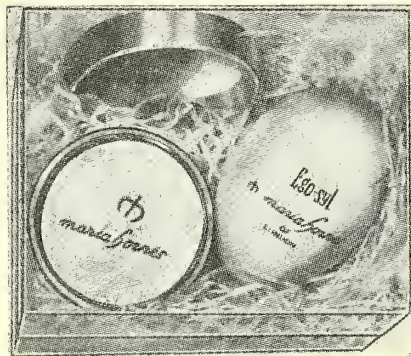
Nylon Combs.—New Nylon unbreakable combs in a counter display cabinet are available from E. R. Holloway, Ltd., 28 Hyde Way, Welwyn Garden City, Herts. They are translucent and the cabinet contains six designs of comb.

Scottish and N. Ireland Agents. — Jackel & Co., Ltd., 11 Devon Street, Glasgow, C.5 (Scottish and Northern Ireland agents for Steiner Products, Ltd., and Roger & Gallet (London), Ltd.) are known under that title, and not as given previously.

Tablet-coating Capacity.—Arthur H. Cox & Co., Ltd., 93 Lewes Road, Brighton, 7, point out that the illustration showing an interior view of their factory in their announcement in *C. & D.*, September 26, showed less than a quarter of their tablet-coating plant.

Made in Britain. — Arrangements have now been concluded to make Bronchovydin in Great Britain as well as on the Continent. Sole agents for the United Kingdom are William Martindale Wholesale, Ltd., 14-16 Bruton Place, New Bond Street, London, W.1.

Egg Embryo Beauty Treatment.—A new preparation of egg protein has been made available by Maria Hornes, 16 Davies Street, London, W.1. By a special process the egg protein is made, it is pointed out, to maintain its



activity and be readily assimilable percutaneously. The preparation is marketed under the name Ego-Syl, and is supplied in an egg-shell in a transparent box, illustrated. In use the egg is cracked and the contents scooped into a jar with a spatula that are also included in the pack.

Available in Britain.—G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1, are making available from that address through wholesalers the following: Pro-Banthine in bottles of forty, 100 and 1,000 tablets, each containing 15 mgm.; Dramamine, in bottles of twelve, thirty-six and 1,000, and boxes of 100 tablets (in strip-packings), each containing 50 mgm.; Flora-

quin, in box of twenty-four tablets, and as powder in 1-oz. bottle; and Diodoquin, in bottles of fifteen, sixty and 500 tablets, each containing 650 mgm. The whole of the sterling area will be supplied from London. The company will conduct a sustained advertising campaign in the medical and pharmaceutical Press, supported by direct mailing and sampling to hospitals and doctors. Catalogues are now being issued to all wholesalers, retailers, hospitals and doctors.

Bonus Offers. — Until October 30, COUNTY PERFUMERY CO., LTD., County Building, Honeyput Lane, Stanmore, Middlesex, are making a special display bonus on Countess hair conditioning cream.—THE DUBARRY PERFUMERY CO., LTD., Goldstone Laboratories, Hove, 4, Sussex, are offering a bonus on orders of 2 doz. and over of Creme Shalimar received in October and November. Show material is supplied with all orders.—C. E. FULFORD, LTD., Carlton Hill, Leeds, 2, offer an autumn

display bonus on orders of £5 value or over received during October for any or all of their products.

Hot Water Bottle Range. — A complete range of rubber hot water bottles fitted with a seal that closes by suction



is available from William Freeman & Co., Ltd., Suba-Seal Works, Peel Street, Barnsley, Yorks. New show material, illustrated, is available.

NEW PRODUCTS AND PACKS

Shaving Cream Introduced. — D. & W. Gibbs, Ltd., 7 Bridewell Place, London, E.C.4, are introducing Gibbs lather shaving cream. A special offer through chemists of a one shilling refund on each initial purchase of a tube of the cream is being made. The offer remains open to consumers until November 28, and the scheme will be supported by a heavy advertising campaign in the national Press. The cream contains a proportion of the bactericide HC.7.

Emollient Cream.—Moore Medicinal Products, Ltd., 1 Queen's Terrace, Aberdeen, Scotland, are introducing a non-greasy, non-sticky cream under the name Codella emollient cream. It is formulated to counteract skin irritation and damage arising from the use of harsh washing powders, and also as an alleviating preparation for chapped hands and for chafed and abraded skin. It is issued in 1-oz. collapsible tubes in display outers each of which holds 1 doz. tubes.

Intrathecal Streptomycin. — Glaxo Laboratories, Ltd., Greenford, Middlesex, are making available streptomycin sulphate for intrathecal injection in packs of 5 x 50 and 100 mgm. ampoules of 10 c.c. capacity.—The Distillers Co. (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19, are making available streptomycin DC(B)L in ampoules containing 0.1 gm. in boxes of ten. An intrathecal injection may be prepared by adding 5 mls of a suitable solvent to the contents of an ampoule.

Sponges of New Material. — Kay Bros., Ltd., Hurst Street, Reddish, Stockport, are issuing a Mermaid range of sponges made of Foamoprene, a new product to Great Britain of which they are the sole manufacturers. The sponge material can be used for many purposes. Mermaid sponges will be made in four pastel shades and wrapped in heat-sealing transparent tissue. Show material is available. The

sponges are hard wearing, oil, petrol and detergent resistant. An introductory bonus is offered on all orders received up to December 12.

Cough Therapy. — A cough mixture containing pholcodine (morpholinylethylmorphine) has been made available by Allen & Hanburys, Ltd., Bethnal Green, London, E.2, under the name Ethnine. Advantages claimed for pholcodine are that the compound is less toxic than codeine, has a higher anti-tussive factor than codeine, and is less constipating than morphine or codeine. The preparation is supplied in a dispensing pack of 80 fl. oz. and bottles of 4 fl. oz.

Animal Feed Mix.—Promix, a penicillin supplement to animal feeding stuffs is available from Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester. It is stable and specially prepared to permit accurate and economical mixing of penicillin into feeding stuffs. Each 7 lb. contains 10 gm. (10 million units) of procaine penicillin. It is suitable for increasing the growth rate in table poultry and pigs. Dosage is $\frac{1}{4}$ – $\frac{1}{2}$ oz. (2–8 scoopfuls) per 56 lb. of feed, according to the type of ration and to experience gained as a result of usage. Promix is supplied in 7-lb. containers.

Sugarless Soft-drinks.—Introduced by The Apollinaris Co., Ltd., Masons' Avenue, Harrow, Middlesex, specially for diabetics, fashion-conscious women and people who do not wish to put on weight, is the Presta Slimline range of soft drinks. Although the preparations contain no sugar and have no calorific value they are indistinguishable in taste from soft drinks made with sugar. Five products have been blended to take the place of sugar as a sweetening agent, to provide "body," and assist in the formulation of the drinks. Slimline is available in lemon-lime and cola flavours, and as Indian quinine tonic water.

FIFTEENTH ASSEMBLY OF THE INTERNATIONAL FEDERATION OF PHARMACY

A HOSPITAL PHARMACIST'S IMPRESSIONS

At least fourteen British hospital pharmacists were present at the meetings of the hospital section of the International Federation of Pharmacy (C. & D., September 26, p. 312). Throughout the conference simultaneous translations were provided for their sessions at the *Palais de Chaillot* in French, English, Spanish and German. We British pharmacists soon found that the Swiss pharmacists particularly had a very high standard of training. They were at home for example in considering with complex physico-chemical equations and high-frequency electromagnetic oscillations—subjects which took a number of us (in company with the interpreters) out of our depth.

I was impressed by the excellent standard of photography shown in a film on the preparation of sterile injection solutions exhibited at a (tea-less) break in the afternoon of Sunday, September 13. Afterwards Dr. Kurt Steiger, Switzerland, took the chair, and having the command of five languages had no need of interpreters. Many of the papers at the session were on biochemical subjects—blood analysis and urine analysis.

No Discussion

While all the papers read at the sessions were valuable, it is difficult to see what useful purpose was served by their presentation at an international conference. No discussion was possible partly because time did not permit and partly because advance copies of the papers had not been circulated to those attending. Each paper could have been presented to a conference of pharmacists in the country of origin of the paper and there discussed. If abstracts were then available throughout the world the results of the researches of pharmacists in one country would benefit pharmacists in other countries. As MR. GRAINGER suggested from the chair at the meeting on the morning of September 14, the meetings of hospital pharmacists could more profitably take the form of symposium sessions where general subjects known to be of interest in several countries could be discussed. Those subjects, I suggest, could be chosen from a study of the published works and views of hospital pharmacists during the time that elapsed between conferences.

On the Monday morning session papers on professional topics were read, the first one being by MESSRS. J. W. HADGRAFT and R. J. HEPPLE (administrative officer, Royal Free Hospital, London). MR. M. P. HUBLET, Belgium, speaking in French, with enthusiasm, gave a heartfelt statement of the difficulties, problems and responsibilities of hospital pharmacists in his country. They often appeared identical with those in Great Britain. Discussion showed that problems common to hospital pharmacy in all countries included the increasing use of specialities.

Monday afternoon and evening provided opportunities for hospital pharmacists of different countries to meet and talk in informal surroundings. All hospital pharmacist visitors were invited by their French colleagues to a trip on the river Seine in the afternoon, and later to the Louvre.

On Wednesday afternoon a film was shown describing foot and mouth disease. Afterwards PROFESSOR CHARONNAT spoke on the factors which determine the appearance, vogue and disappearance of medicaments.

On Thursday morning I had the privilege of visiting the pharmacy department of a large Paris hospital. It was spacious and reasonably well appointed so far as the dispensing and chemical laboratories were concerned, but the storage conditions—in a cellar—sadly reminded me of those frequently found in British hospitals. Intravenous fluids were prepared in the department, although the work was carried out with little modern apparatus. Galenicals and ampoules of sterile medicaments are obtained from a central laboratory set up to supply Paris hospitals. The chemical analysis of urine and blood and the bacteriological control of milk are routine duties of hospital pharmacists in France. Popular disinfectants in use are Dakin's and sodium hypochlorite

solutions. Chloroxylonol was not used, but a 1 per cent. solution of cresol and occasionally a quaternary ammonium compound were used. It was surprising to find vegetable drugs such as peppermint and eucalyptus leaves, and dried flowers of various kinds still in use. Out-patients take their prescriptions to retail pharmacies.

The final meeting of hospital pharmacists took place at the *Faculté de Pharmacie* on Friday. PROFESSOR CHEYMOL, MR. GRAINGER and DR. STEIGER led the meeting. It was announced that 170 hospital pharmacists from twenty countries had attended the conference.

As a result of attending the conference I am convinced that international co-operation between pharmacists is readily possible. Nothing but good can come from discussing matters of mutual interest to hospital pharmacists at international conferences, but organisers must guard against the temptation of trying to do too much in the time available.

The visiting hospital pharmacists from other countries were taken on a river excursion by their French colleagues, and visited also the *Pharmacie Centrale* (at which galenicals, ampoules, cachets, etc., for the hospitals of Paris are prepared) and the pharmacy department of the modern 1,800-bed Beaujon hospital.

FEDERATION SCIENCE PAPERS

(Concluded from THE CHEMIST AND DRUGGIST, September 26, p. 312).

ADVOCATING an international standardisation of essential oils, P. DUQUENOIS, France, said that several organisations have engaged for a few years, in different countries, upon standardisation of norms and analysis methods of essential oils. These commendable attempts would remain empty if they were to be undertaken only by administrative or scientific organisations. It is of absolute necessity to take advice from specialists in industry and make up this standardisation work in co-operation with trade technical staffs. That is what has been done in France. But the question already lies beyond the national frame and an International Standardisation Organisation (I.S.O.) has set on a working programme with contribution of about twenty countries.

Physico-chemical methods for determination of vitamin B₁₂ in pharmaceu-

tical preparations were described by F. WOKES, N. BAXTER and J. HORSFORD, King's Langley. Microbiological methods are the most sensitive but do not distinguish between different cobalamins.

A. SOLDI and R. PONCI, Italy, described the results of comparative experiments to determine the peroxide number of pharmaceutical oils and of ethyl oleate to see whether the test, regarded as essential for the synthetic product, was more or less useful in the case of vegetable oils used in pharmacy. They found that it was.

A study of the diffusibility of antibiotics from creams and ointments through a permeable membrane was presented by H. PENAU and others.

The stability of vitamin A in aqueous dispersions in injectable preparations. F. GIALDI and R. PONCI, Italy,



BRITISH AND COMMONWEALTH VISITORS IN PARIS: left to right, Messrs. Charles Bell, New Zealand, J. S. Walmsley, D. E. Sparshott, T. Heseltine, T. Reid, and W. G. Hollis, Great Britain, at a display of pictures arranged by Parke, Davis & Co., Ltd.

examined the stability of aqueous pseudo-solutions of vitamin A acetate, put into phials filled under nitrogen, where polyoxyethylene-sorbitan mono-oleate was used as a spreading agent, and observed that they can be sterilised by heating without any appreciable loss of activity, and that conservation at a normal temperature is practically equal to that of oil solution.

The possibility of separating the various constituents of the tissues of some organs by subjecting the actual tissues themselves to gradual pressure "fractional pressure" in which a special "ultrapress" is used that makes it possible to reach a pressure of 1,000 atmospheres, was used by S. BOCHOTTI, Italy, to obtain fractions at different pressures and collect them separately. It was possible to isolate intercellular constituents, cytoplasmic constituents and nuclear constituents, according whether low (up to 100 atm.), intermediate (100-300 atm.) or high pressures (above 300 atm.) were applied. In pharmacognostic research, the same method has made it possible to determine the localisation of active principles, and consequently to extract them. The author has observed that vitamin B₁₂ is contained in certain well determined fractions of the liver. The method makes it possible to obtain almost all the vitamin B₁₂ contained in the liver by using only a small part of the pressure juice resulting from pressure of the hepatic tissue.



Sir Hugh Linstead (the newly elected president of the Fédération Internationale de Pharmacie) and Dr. E. Host Madsen leave the premises of the Ordre National des Pharmaciens.

The eutectic point is used by R. OPFER-SCHAUM, Germany, to identify a chemical in mixtures and evaluate its stage of purity. Three tables given by the author present data on eutectical temperatures of mixtures of dicyanodiamide with alkaloids used in pharmacy, vitamins, etc.

A. H. FENTON, Great Britain, showed that some official preparations of camphor may be prepared with much less alcohol than is used at present.

A. ANASTASI and colleagues, Italy,

recommend polarographic methods in most determinations of chloramphenicol in specialities, however complex.

P. MESNARD and A. LAFARGUE, France, attempted to work out a general and systematic method of separating cardiotonic glycosides by paper partition chromatography.

Different parts of the rhizomes and the older wood of the roots of many varieties of *Rheum palmatum* were analysed by F. H. L. VAN OS, Holland, and the contents of rhein- and non-rhein-glycosides determined. With the aid of the results obtained, the most valuable varieties were selected.

J. A. GAUTIER and others, France, had found that N-methyl thiopyridone-2 readily acts on alkyl-halides to give onium-salts the chemical action of which can only be accounted for by mesomerism. These salts sometimes react like ammoniums and sometimes like sulfoniums. They set out to determine whether they, like certain real ammoniums and sulfoniums, possess antiseptic properties.

The bacteriostatic activity of N-methyl thiopyridone-2 alkyl-halides against *Staphylococcus aureus* and *Escherichia coli* increases regularly with the length of the alkyl radical chain, reaches a level with lauryl and myricyl



Mr. T. Heseltine (President of the Pharmaceutical Society of Great Britain) right, Dr. U. Gallo, Milan, and others at a Fédération session.

and then falls. It is always lower than the activity of simple ammoniums like cetylpyridinium bromide.

In a paper on "Pharmaceutical Teaching and Research in British Hospitals," T. D. WHITTET, Great Britain, surveyed the teaching arrangements and research facilities in the pharmacies of hospitals attached to British Universities and asked the representatives of all the countries in F.I.P. to let him have a summary of similar information from their own hospitals.

PHOTOGRAPHIC NOTES

8-mm. Projector. — Cinex, Ltd., 9 North Audley Street, London, W.1, have available their M.8.R. ciné projector. It is suitable for 8 mm. film.

Colour Photography on Everest. — At illustrated Everest lectures held recently at the Festival Hall, London, all slides were on Kodak colour film. All the photographs taken at the summit of Everest were taken by Sir Edmund Hillary on standard Kodak colour film "Kodachrome" with a standard Kodak camera Retina.

An Improved Lens. — North Staffs Photographic Services, Newcastle, Staffs, announce that the Edina camera in all models is now fitted with the Isconar f2.8 lens made by the Optische Werk Geothingen, a subsidiary of Schneider, Kreuznach. The lens mount is now threaded, and filters will shortly be available, as well as screw-in lens-hoods.

Camera Clamp. — A new camera clamp issued by Ilford, Ltd., Ilford, has a steel base, cadmium-plated. The maximum width the jaws will accept is 1½ in. The top portion, of Duralumin, is removable so that it may be placed on an ordinary tripod to form a ball-and-socket head. The top pillar may be rotated through 360° and may be tilted downward to 130° from the vertical. The top of the ball-and-socket head is fitted with an English tripod screw (¼ in. Whitworth), while the base of the pillar has a continental bush. The accessory may be used with an English-threaded tripod if desired by inserting an adaptor. The overall length (closed): 7 in. — A new accessory makes print or film washing one of the simplest parts of the routine of processing. A photographic dish or bowl is converted into a washer in a matter of seconds merely by placing the water circulating attachment inside and holding it in place by screwing a

fitted clip to the side of the receptacle. The accessory accepts any lip edge not thicker than ⅝-in. One end of the device is flattened to produce a jet of water, and the other end is ridged to hold a rubber tube connected to the water tap. The tube is of chromium plated brass, and the ejector end is curved so that the jet of water goes toward the centre of the dish and thus swirls the prints round. The dimensions are 4¼ x 1⅞ in.; external diameter of tube, ⅞-in.

Liquid Stop Bath with Indicator. — By means of the indicator constituent of a new stop-bath issued by Kodak, Ltd., Kingsway, London, W.C.2, the customer who likes to carry out his own processing may know when the bath is becoming exhausted. The solution changes to a mauve colour when it should be discarded, a darkening easily visible in the safelight of the darkroom. The alkali carried over by the prints from the developing dish gradually neutralises the acid in the stop bath, but experiments have shown that a fresh bath stops the development of many more prints than the amateur is likely to make at one time. Kept in a stoppered bottle, the diluted solution keeps indefinitely, and even lasts in an open dish for three days if kept at a temperature not above 75° F. A stop bath is prepared by adding 1 oz. of the stock solution (which is light yellow in colour) to enough water to make the bulk up to 1 quart. Prints or negatives when removed from the bath of developer are rinsed for about ten seconds in the stop bath, being kept moving during that time. Less time suffices when the bath is new, but it is better to form the habit of immersing for the full time to allow for the gradual weakening of the solution as it is used, so ensuring that a partly exhausted bath does its job.

FIGURES IN THE PHARMACEUTICAL WORLD

CARRYING his years lightly, Mr. P.A. Brady gives to Irish pharmacy some forty years' experience in the profession, and the personality and judgment that have caused his fellow citizens to make him, for example, a councillor of Dublin City for twelve years, a peace commissioner for the County of Dublin (an office that he has held for fifteen years) and latterly a member of Dail Eireann. His colleagues in pharmacy were quick to recognise a leader in Mr. Brady, as the number of high offices in professional and trade organisations that he has occupied, and the time for which he has held them show. A member of the Council of the Pharmaceutical Society of Ireland for a total of twenty years he was president of the Society for two years (1948-49-50); he was president of the Irish Drug Association from 1936-39, and continues to serve on the committee of that body. He has been an officer of the Irish Branch of the Photographic Dealers' Association for twenty years, for many of them as secretary. He is now the Association's treasurer. A strong supporter of the British Pharmaceutical Conference, Mr. Brady was himself secretary of the British Pharmaceutical Conference's Reception Committee when the Conference was held in Dublin in 1929. He was at that time also a member of the Council of the Pharmaceutical Society of Ireland. He is regularly among those who represent Eire at meetings of the Conference.

Mr. Brady's greatest experience of pharmacy derives from his ownership for thirty years of a retail establishment, in which he specialises primarily in dispensing. It is situated in Camden Street, Dublin, on the south side of the city. It was, in fact, partly the time and energy that he had to devote to it that prevented him from completing the study of medicine—a pursuit to which he had already given four years. However, that work has not been lost to him or to pharmacy, and no doubt has been in part responsible for his particular interest in education in his profession. He naturally welcomes the new education provisions for pharmacy in Eire, and is "very proud" of the Society's new premises and buildings.

Perhaps the greatest single task that he has accomplished for pharmacy is piloting through the Irish Parliament the new Pharmacy Act. While the Bill was being formulated and passed through the Dail, he had several interviews with the Minister for Health and his officers, and impressed on them the value of pharmacy in State health services. In the House, Mr. Brady again stressed that value, and urged the need to safeguard chemists' interests in such services. As a result, although chemists are not mentioned in the Act, the Minister has promised to meet chemists' representatives before anything is decided on the form of regulations under the Act that may affect them. Mr. Brady feels strongly that by training and charter pharmacists are entitled to be the only people in Eire



10. Mr. P. A. BRADY, M.P.S.I., T.D., P.C.

who undertake the distribution of medicine, and gives credit to the Irish Drug Association for "helping us to live up to a standard."

Mr. Brady advises that chemists should take a greater activity in local non-pharmaceutical affairs. Constant preoccupation with the till, he says, is a "bad complex."

Born in co. Cavan, he was apprenticed in co. Meath, and after varied experience in the provinces, qualified from the College of the Pharmaceutical Society of Ireland in 1917. He gained further experience in some leading Dublin pharmacies before acquiring his own medical hall—as pharmacies were called then. He did not neglect the broader general training in his earlier days and travelled widely.

Mr. Brady has served on virtually all committees of the Dublin corporation during his twelve years of councillorship, but his chief civic interests are those for which his experience gives him special qualifications—housing and public health. He is also a governor of Meath and St. Lawrence (formerly Richmond) Hospitals. He was elected to represent the Government party in the Dail at the last election. It was the first occasion on which he had stood as a candidate. His example to his family in the choice of profession may be reflected in the fact that his eldest son qualified two years ago as a doctor, and his next eldest son is a registered pharmaceutical student. For relaxation, Mr. Brady travels or plays "at golf."



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Abrupt Fee Increase

THE recent prompt passing of the Pharmacy Bill through Parliament is resulting in changes being provided for unexpectedly soon. Perhaps the most remarkable results are the speed with which the Council of the Pharmaceutical Society has proposed to raise the personal retention fee and the amount by which it is to be raised. That a review of the fee was inevitable was generally admitted, and so recently as the last annual meeting of the Society it was evident, as a number of speakers then pointed out, that the Society was living partly on the sale of its publications—a source of income that was not appropriate to a profession with statutory duties. Any change made in the size of the fee should be worth the making, but it must be asked whether the abruptness of the proposed increase was justified. Admittedly, no change has been made since 1945, when the fee was raised to its statutory limit, but to increase it by more than twice at one swoop may cause more hardship than is necessary among newly qualified pharmacists, and among those in the branches of the profession with the lowest salary scales. No one will dispute, however, the correctness of the principle enunciated during the Committee stage and second reading of the Pharmacy Bill (*C. & D.*, April 11, p. 360 and March 7, p. 230) that the raising of the personal retention fee is the most independent means of increasing the Society's income. If the younger members have been treated somewhat harshly the Council has remembered with compassion its older members, for no fee is to be payable by certain pharmacists over seventy years of age, whereas at present they pay £1 1s. Similarly, British pharmacists overseas will be required to pay only half the total fee, so that their extra responsibility will be only 2s. annually. The new by-laws may be regarded in the short run perhaps, as providing for the assumption of the new and publicly less known titles at the annual cost of £2 4s. from next year—so long as the date of the coming into force of the Act and of the Supplemental Charter is before the end of 1953.

Overseas Trade in August

THE total of United Kingdom exports in August was £198.2 millions and imports were valued at £249.3 millions. With re-exports at £8.8 millions the excess of imports (valued c.i.f.) over exports and re-exports (f.o.b.) was therefore £42.2 millions. The decrease in the export figure compared with July was partly

accounted for by the effect of industrial holidays and by the shorter month, August having twenty-five working days against twenty-seven in July. Exports of drugs, medicines and medicinal preparations during August were valued at £2,452,963 of which proprietary medicines accounted for £577,365 against £582,525 in July and £449,991 in August 1952. India was again the largest individual importer of those products, the value of proprietary medicines being £32,644 and of other medicinal products, £305,616. There were neither imports from nor exports to Brazil in that section during the month.

Penicillin products at £324,895 were higher than in July (£319,770). They comprised: Salts, £165,600; injections, £116,099; and penicillin ointments, tablets, lozenges, etc., £43,196. Sulphonamides at £124,822, aspirin at £42,299 and quinine at £7,960 were at their lowest levels for any month this year. Antipaludics on the other hand at £116,080 was at the highest level since January 1952. Insulin exports recovered in August to £44,260 whilst that of antibiotics other than penicillin at £285,535 was about the monthly average for the eight months of 1953.

Total perfumery and toilet preparations shipped overseas were valued at £595,608 of which cosmetics accounted for £164,096 and dentifrices for £122,983. Among other exports in August were toilet soaps at £146,769; essential oils at £38,842 and perfumed spirits at £66,899.

On the import side, proprietary and other medicines increased to £554,000 from £425,299 in July. Imports of menthol were again at a low level—1,948 lb. valued at £3,268.

Where Contractors Stand

IF the recent report of the Committee of Public Accounts (see *C. & D.*, August 15, p. 159) is considered in conjunction with the report on the classification of proprietaries by the Joint Committee on Prescribing, no thinking pharmacist can regard the future of the pharmaceutical service without serious misgivings.

In retrospect it is apparent that the National Health Service was so ambitious in scope and so comprehensive in application that modifications had to be introduced at an early stage. Changes were made in the conditions governing the pharmaceutical service. There were reductions in the allowance to cover cost of containers, and in the amount added to the account to represent oncost. The value of the contract was further affected by delays in final settlement of accounts, with interim payments on an average basis. Later, charges were imposed for prescriptions, payable by patients themselves. Those payments did not directly affect the remuneration of chemists, but it involved them in extra clerical and other work in collecting charges and in issuing receipts to those entitled to claim a refund. All the time, costs were steadily mounting, and though the charges imposed at first a check on the number of prescriptions being issued, the rise in numbers resumed its upward course after the lapse of some months.

Within a few years the Government found that all its estimates of cost had been received. A ceiling of £400 millions was fixed as the annual total cost of the Health Service. That did not stem the rising tide, and something drastic had to be done. Prompted by the Treasury, the Ministry of Health set up committees

to consider various aspects, and in fact, the whole of the arrangements for the Health Service are under review at present.

Despite the probability that whatever amount could be saved by the most rigid economies in prescribing, it would prove to be a very small percentage of the total cost of the Health Service. The Ministry has, under Treasury pressure, turned a searching eye on all prescriptions. Most lines of investigation appear to have converged on the proprietary preparation. The branded pack has been weighed and measured, its quantity, quality and characteristics assessed, its therapeutic value appraised, its cash value estimated, manufacturer's hopes about it examined, retailers' profit on it recorded, patients' reactions to it tested and checked. No fiercer light of publicity has beaten on any other single factor in Health Service costs.

Some results of the investigations have now become apparent. Two reports, that of the Cohen Committee on the classification of proprietaries (*C. & D.*, July 25, p. 73), and the Committee of Public Accounts have been published. It is clear that official action taken on the recommendations of the Cohen Committee will virtually bar many proprietary preparations from being prescribed. With others, negotiations are proceeding to reduce the prices charged to the drug account.

In a covering letter from the chief medical officer of the Ministry, which accompanied the classified lists when distributed to medical practitioners, it was suggested that two principles should be applied when the question of prescribing arose. Doctors were advised (a) to prescribe any preparations not included in the lists only after ascertaining their cost and comparing it with that of similar standard preparations and (b) to reduce the frequency and quantities of their orders for all standard products.

If the majority of medical practitioners give effect to those recommendations officially made to them the present balance of conditions within the chemists' contract will be disturbed. The ordering of smaller quantities or of cheaper standard preparations will result in a lower ingredient-cost total in the chemist's monthly account. Fewer prescriptions will mean that the total of dispensing fees will go down. Overhead expenses, assistants' salaries and time expended at the dispensing counter will not be materially affected if 1 oz. of ointment is prescribed instead of 2 oz. or if twelve tablets are ordered instead of twenty-four, but dispensing fees will be reduced—in non-extemporaneous ointments and tablets, to give an example, by threepence per prescription.

With a lower total ingredient cost than formerly, the 25 per cent. addition in respect of oncost will, of course, represent a smaller amount.

If total turnover (fees and ingredients) is reduced, and total overhead expenses remain the same, the percentage of profit on the dispensing business done becomes less and the chemists' contract less remunerative.

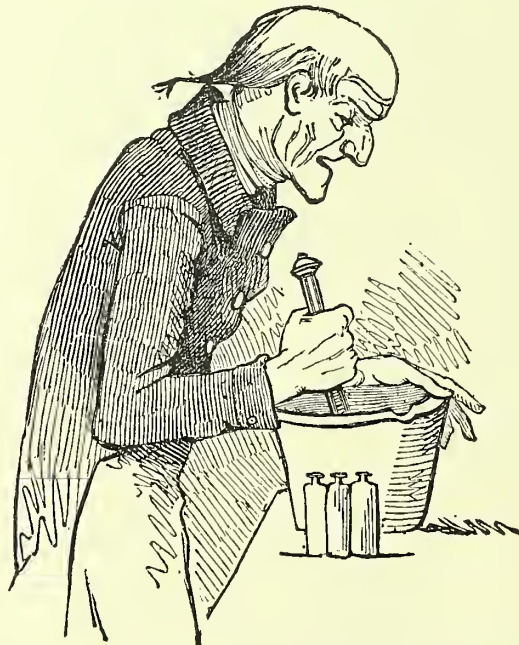
To that eventually is added a second threat to chemists' remuneration. It is implicit in the report of the Committee of Public Accounts, which recommends that no increase in the scale of remuneration for chemists shall be considered unless the fullest facilities are given for inspection of books and records from which facts as to past remuneration and expenses can be established. The report records the Committee's emphatic opinion that the Health Departments should ensure that no more

than fair and reasonable prices are paid for any commodity that is in substantial demand for the health services. It expresses the hope that next session the Committee may be furnished with more tangible results than have yet been forthcoming. Under that pressure the Ministry of Health is considering a fact-finding investigation into the levels of chemists' remuneration. It has started inquiries into the costs and profits of manufacturers of non-proprietary drugs and dressings, and similar inquiries have been proceeding in connection with proprietary preparations.

Can it be doubted, therefore, that the prospect for the future of the pharmaceutical service as seen from the contractor's point of view is rather poor. The pharmacist does not welcome large orders, particularly for proprietary preparations. He is as anxious as any other interested party that costs shall be kept down. But after five years of service, in which he has seen his own remuneration reduced on several occasions, it is natural that he should take particular note of any major changes in conditions and calculate the probable effect on his own position of current tendencies. Pharmacists must make their own position clear, and show that, if the present balance of wages paid for work done is disturbed, the whole position may have to be reconsidered.

Perhaps the National Pharmaceutical Union or the Central Contractors' Committee will be able to bring forward proposals, or announce some readjustment accomplished, that will allay the apprehensions now felt by pharmacist-contractors in the Health Service.

THE APOTHECARY



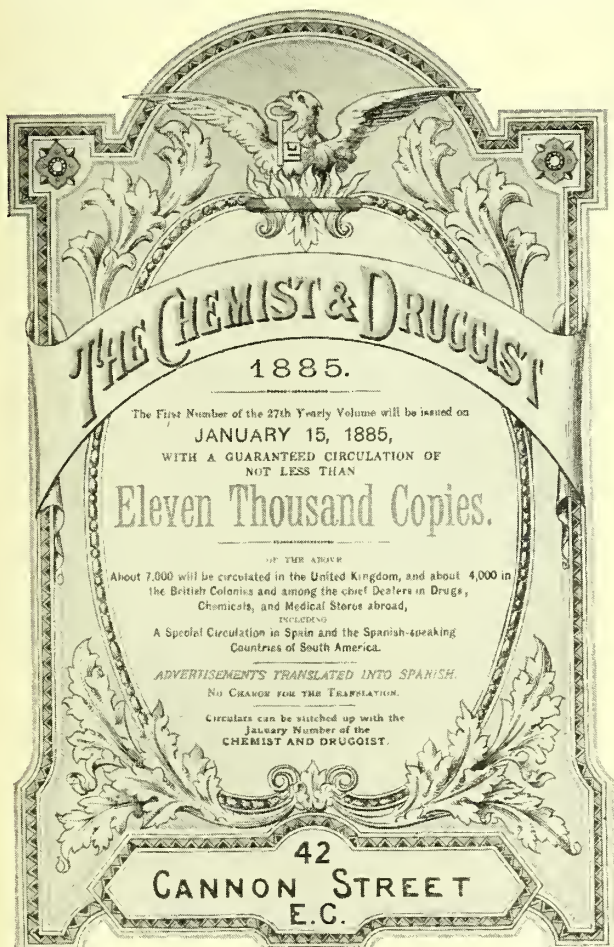
One of seven "medical phisogs" from the "Gallery of Comicalities" (see *C. & D.*, August 22, p. 188).

*Pounder of drugs! I greet you well,
Although your countenance is quizzical,
Your moral worth I cannot tell,
But I appreciate your PHYSICAL.
Thou worthy lad of the M.D.'s,
We hail thee as old Galen's pupil;
Giving thy aid to floor disease,
By powder, blister, draught, and blue-pill.*

Onward from Galen

A CURRENT CAUSERIE

THE advertisement pages of THE CHEMIST AND DRUGGIST are not ordinarily the subject of paragraphs in this column. However, a subscriber and advertiser of many years' standing recently sent us, purely as a matter of interest, a circular his firm received from the Publisher of this paper in



1885. To put the lapse of time in proper perspective, it may be mentioned that 1885 was the year of publication of a British Pharmacopœia, and that five others have subsequently made their appearance. The trade and the profession have seen many changes in the interval (and so have styles in design), but the evidence speaks for itself that the C. & D. remains outstanding as an advertising medium, even if it is not often called upon to translate advertisements into Spanish and if some of the colonial territories where it was once the official organ of local pharmaceutical organisations have become Dominions well able to support their own flourishing periodicals.



A PRELIMINARY review of the number of news "mentions" of the London meeting of the British Pharmaceutical Conference shows that the Conference had a specially good Press. There were no fewer than 368 references in newspapers or on the radio, each of which it is presumed at least implied the professional status of pharmacists. Heading the list are mentions of conference members in local papers covering the country from Aberdeen to Plymouth; and a close second is the Chairman's address which featured in particular in the "nationals" including *The Times*, *Manchester Guardian*, and *Daily Telegraph*. Wide

publicity was given also to the Conference Exhibition and Banquet, and the remarks of the Minister of Health. The discussion over Latin or English for prescriptions received fifty-three mentions, including mention in eight daily nationals among them *The Times* and the *Daily Worker*. That result is of special interest in view of the Branch Representative's recent decision not to allow the non-pharmaceutical Press to attend.



If there are any who still believe that the only uses of seaweed are as a source of iodine and as a crude barometer, they will be much enlightened if they refer to the *Proceedings of the First International Seaweed Symposium* (held in Edinburgh in 1952). [The book is obtainable from the Institute of Seaweed Research, Inveresk, Midlothian, Scotland, price 10s. 6d.] Among the many short papers included are a few dealing with the medical or surgical possibilities of materials obtained from seaweed. One paper lists the applications of alginates (which are of algal origin) in surgical practice. They include: hæmostatic powders, talcum powder substitute, wool or gauze for torn tooth sockets, soluble bone wax and first-aid dressings. Another author points out that alginates contain trace impurities that inhibit bacterial growth, so that a method of testing purity is available. Elsewhere in the (113-page) booklet it is made clear that algæ contain growth promoting and anti-xerophthalmic vitamins in quantities exceeding those in the best summer butter. The vitamins present include vitamin B₁₂ which was found in three species of seaweed (this substance seems to crop up in the most surprising places). There is food for thought (and action) by pharmaceutical researchers here, for one author states that the "Vitamin A" of algæ, although its pharmacology is apparently the same, is not chemically identical with what we pharmacists know as vitamin A or its precursors.



THE recent announcement that there is no evidence that the nation's health has suffered by the reduction in the number of prescriptions dispensed during 1952 makes welcome news. However, the time for which the shilling charge on prescriptions operated in the period reported on is insufficient for any general conclusions to be formed about the effect of the charge on health. The Ministry's latest figure shows that the inhibiting effect of the charge on potential patients is particularly doubtful, for in the last month of the year there was over a 12 per cent. rise in the number of prescriptions dispensed compared with the corresponding month in the previous year. In explanation of that increase, however, the Ministry points to high evidence of sickness then caused through dense fog in London. In the report the Minister pays a notable tribute to the effect of development research on increasing production of penicillin.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

GIFT SCHEMES

SIR,—I am amazed and amused at the number of "gift schemes" that are being boosted. Why cannot the manufacturers reduce the price of their goods instead of trying to improve sales by giving away another saleable article on certain conditions? Would such a reduction not give far better results and be more satisfactory to the purchaser? We all know business has often to be sought now, and a reduction in prices would probably pay far more dividends than a catch "gift."

SCOTTISH CHEMIST

A CENTRE OF HOMŒOPATHY

A PHARMACY WITH WORLD-WIDE CONNECTIONS

BEHIND the distinguished frontage at 73 Duke Street, Grosvenor Square, London, W.1—an establishment identifiable only by a swinging sign carrying the name Nelson, and a clue as to its activities given by two specie jars in a window that displays in addition only an indication of Royal appointment—is conducted a business unique in Great Britain and possibly in the world. The business (of the name A. Nelson & Co., Ltd.), sells nothing but medicine; it is entirely homœopathic; prepares nearly all its own galenicals, has in addition to its retail trade, a considerable wholesale and export business, and makes specially convenient packs of preparations for National Health Service and private dispensing. It exists solely on its reputation, quality of its goods and personal recommendation, for no advertising is done.

The public part of the shop is bounded by a narrow L-shaped mahogany counter with curtained glass doors below. On it are displayed only an analytical balance and a small case showing a number of Messrs. Nelson's homœopathic preparations. A writing pad adds a useful and professional touch to the counter. The shop is separated from the dispensary by a leaded-light screen. Beyond the dispensary may be seen a taller screen which in turn separates the dispensary from the office, and at the far end of the shop, lit from above by a glass-and-concrete pavement-roof, is a gallery surrounded with a wrought-iron banister. Above the gallery and surveying, as it were, the whole shop, is a bronze bust of Hahnemann, "father" of homœopathy. Arranged along the right-hand wall of the shop is one of the largest sets of drug rounds in Britain, comprising some 500 bottles of various sizes (5, 10, 20 and 40 fl. oz.), all in daily use. The shop is ornamented with two distinctive drug jars and with a piece of coral from the Pitcairn Islands (where some of Nelson's regular customers live). The atmosphere of the shop is impressively professional.

The business was founded in 1860 by Ernest Louis Armbrecht, a member of an old Hanoverian family, who emigrated to England in search of peace. Armbrecht possessed a brilliant brain, but circumstances prevented him from realising his ambition to become a doctor, and he qualified as a chemist. To England he brought with him ideas on homœopathy from his native country, the home of that type of medicine. He was a pioneer in introducing tonic wines and coca preparations, and imported into Great

Britain most of the country's radium supplies at that time.

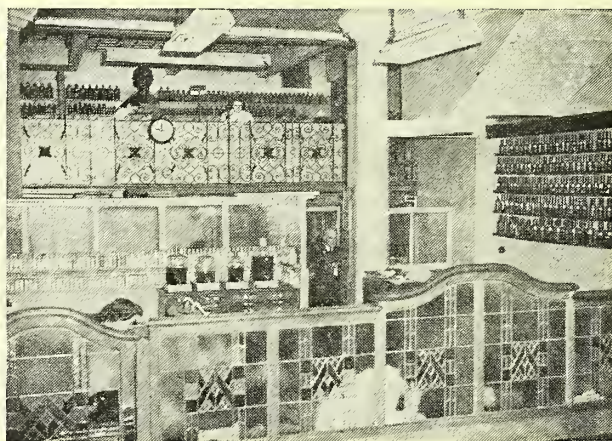
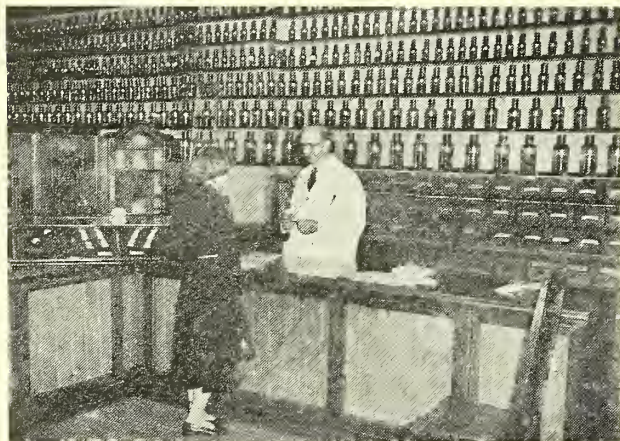
He opened the present business in Ryder Street, St. James', London. The building in which the present shop is housed was built by Armbrecht himself in 1890, and the pharmacy was moved into it from the previous address at 2 Duke Street, to which it had moved from Ryder Street at the turn of the century. On Armbrecht's death in 1912 the business was taken over by his son, Ernest Louis Nelson Arm-

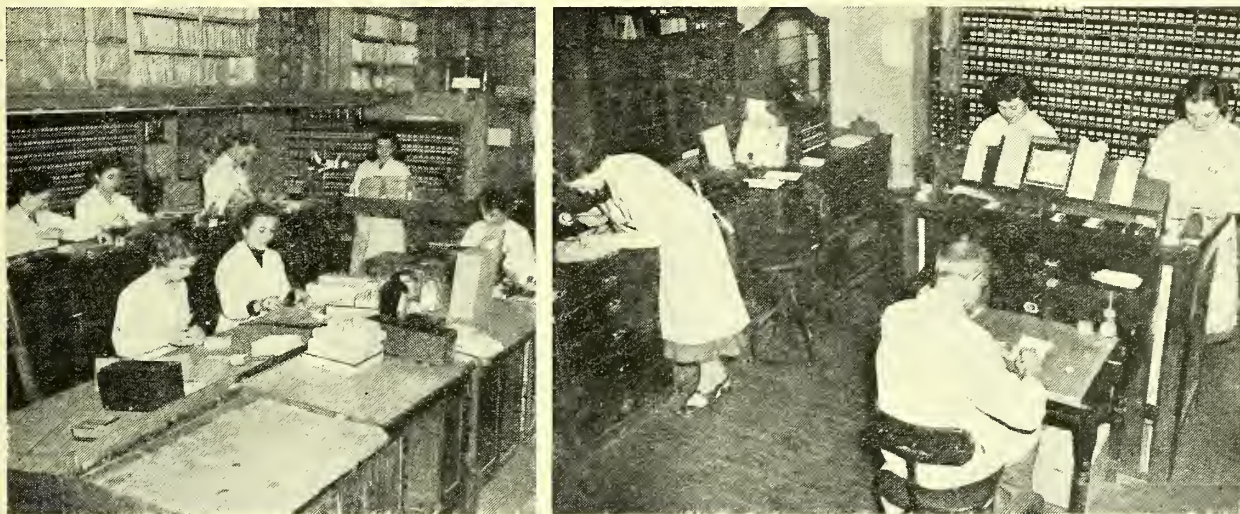
brecht, Ph.C., who, later, during the first world war, changed his name to Nelson, that of the family into which he had married. Originally the pharmacy was known as "English, French and German Chemists," but after the first world war a move was made to concentrate exclusively on homœopathy. The shop was double-fronted with a house above for the proprietor and a basement in which coca wines were made, but since 1918 it has been gradually altered to its present state. Mr. D. W. Everitt, M.P.S., the present managing director, joined the business in 1920. The essentially family nature of the business is indicated in the fact that Mrs. Everitt is a daughter of the late Mr. E. L. N. Nelson.

Non-pharmaceutical lines have been allowed to die over the past twenty-five years, and the profit lost made good by putting the price of medicine on a rational basis by increasing it a little. The policy has paid handsomely, and has elevated the status of the business. Mr. Everitt thinks



Left: A customer presents a prescription at the counter. Behind may be seen some of the set of 500 drug rounds that form a distinctive feature of the shop interior. Right: A view above the screens in shop showing the wrought-iron banistered gallery and bust of Hahnemann.





Left: A view of the packing and wholesale section. It is housed in an air-conditioned basement room. Right: Inside the dispensary.

that the same sort of procedure could well be adopted more widely.

Many homœopathic necessities are not purchasable commercially and to manufacture them is the only way of obtaining them. That involves employing botanists, and needs personal international connections that can only be built up over a lifetime, to ensure supplies of rare exotic drugs. As many of the drugs are used in comparatively small quantities, Messrs. Nelson frequently make reciprocal arrangements with suppliers and supply them, in turn, with drugs indigenous to Britain. For example, hamamelis is obtained from the United States or Canada, and in exchange belladonna, etc., is sent to the American supplier. The drugs used are the same as those used in allopathy, except that they are practically all processed fresh. The problem of obtaining green drugs has been simplified with the development of air-freightage routes, and a novel transaction completed recently with the help of air transport was to import a drug from Oregon, U.S.A., process it and export the preparation back to America (where it was said that it was not available locally) in less than a month. Among the unusual drugs handled by the pharmacy are snake venoms and insect poisons. The pharmacy used curare half a century ago.

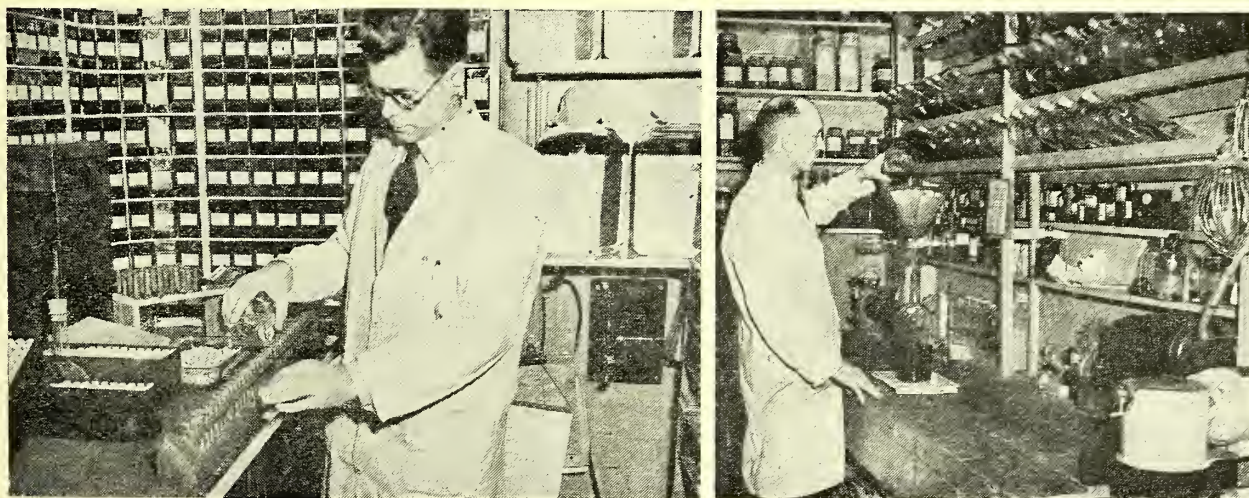
The business handles over a thousand parent drugs with preparations in dozens of different strengths, and the total number of items it can supply is indicated by the fact that the label cabinet has provision for three-and-a-half million labels. Apprentices at the establishment receive an un-

usually thorough pharmaceutical training, and Mr. Everitt has had two successful pupils in the post-war years.

To keep such a diverse stock manageable, details (including location) of the preparations held are entered in a stock book. In the dispensary, tinctures are kept in small phials in boxes holding fifty, and for speed in dispensing powders, for which there is a large demand, powder boxes are lifted to the dispensing bench automatically through a slot-machine mechanism. Two million powders are handled annually, half of them being sold through the company's wholesale and export channels.

All water used in the establishment is re-distilled from hard glass apparatus. Below the shop are the manufacturing departments. Among the novel features there is the method of storing winchesters of tinctures—obliquely on their sides, like wine bottles. The preparation of homœopathic tinctures has, in fact, much in common with the preparation of wine. The sloping angle of storage ensures that any deposit settles into the "corner" of the bottle and will not readily be disturbed by subsequent decantation of the liquid. Tinctures are said to be matured when sedimentation has ceased. The tincture-manufacturing room is equipped with a hammer mill for reducing dried drugs, stainless steel buckets, trays and tincture presses, an end-runner mill for trituration, and a large refrigerator. On the stock shelves of the room are drugs freshly imported from countries as far apart as Switzerland, Canada, France, India and Australia. Drugs that grow in remote places not accessible to airfields, for example, aconite or gentian, that

Left: Making dilutions. An electrically-operated succussor is shown fixed to the wall. Right: In the tincture room, Winchesters are stored sloping.



have to be collected at altitudes of about 5,000 ft., are sliced and dispatched preserved with alcohol. Other apparatus in the tincture room includes an ointment machine, mechanical stirrer, and a water still for the primary distillation. A separate percolator is reserved for each drug processed by percolation.

Possibly as a result of the use of the centesimal system in homœopathy, the preparations made by the company are dispatched in boxes of five. That quantity has been found to be much easier for the sender and receiver, both in pricing and stock-keeping, than a fraction of a dozen. For the use of other chemists in dispensing homœopathic preparations, Nelson's send out "units" filled from an ampoule-filling machine and wrapped in Pliofilm. For dispensing the units only need the film to be removed and the product relabelled. In addition to that machine the equipment in the packing department includes a much

used and high capacity powder-paper folding machine.

A potency room, glass panelled, caters for the dilution of tinctures and other preparations. It feeds the daily needs of the shop for dispensing, retail and wholesale sale. An unusual machine therein is a succussor, electrically driven, for shaking violently each dilution of homœopathic tincture as it is made. All of the phials, measures, and other glassware are washed in distilled water and sterilised before being used. In the best homœopathic custom, pestles, mortars and spatulas in the shop are reserved for each separate powdered drug, the drug and the apparatus being enclosed in a box.

A staff of twenty to thirty (mostly girls) is employed, and special attention is given to their welfare. Their working conditions match the conditions under which the preparations they handle are made. Mr. Everitt has the help of another pharmacist, Mr. J. B. L. Ainsworth.

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

18. ANÆSTHESIA—*continued*

INTRAVENOUS anæsthetics have the not unimportant disadvantage that they are not excreted so rapidly as the volatile substances such as ether and trichlorethylene that are excreted via the respiratory system. The main use of an intravenous barbiturate is therefore for operations of short duration or under light anæsthesia. To attempt prolonged deep anæsthesia with them is dangerous because of the relatively long time of excretion and the wide variation of dose that exists amongst different individuals. Having induced anæsthesia with thiopentone, however, it is possible and, in fact, normal procedure, to continue anæsthesia with nitrous oxide or one of the volatile anæsthetics. Induction with thiopentone and deepening of anæsthesia with a volatile anæsthetic was more or less the general rule in anæsthesia when muscle relaxants were introduced.

Following the introduction of muscle relaxants, new techniques became possible. Deep anæsthesia is no advantage from the point of view of relieving pain; it merely increases muscle relaxation. Using curare it became possible to induce anæsthesia in the usual way with thiopentone, and having produced relaxation with a muscle relaxant, the operation could proceed under light anæsthesia. Consequently less shock is produced and there is a further advantage in that the patient returns to consciousness much more rapidly after the operation. In fact he may be conscious on arrival back at the ward. To maintain this light anæsthesia required only a very small concentration of ether in gas and oxygen. Now that this new method of light anæsthesia has been perfected, other techniques are being examined. It is obviously not desirable that the patient shall see and comprehend what is going on, so that sleep is likely to remain a permanent feature of anæsthetic practice. Several new anæsthetic methods have been evolved in which the patient receives either a relatively large dose of an analgesic such as pethidine or procaine. This can be given in the form of an intravenous transfusion or in certain cases as a single dose. Muscle relaxation is produced by a relaxant drug and the patient remains oblivious of what is occurring by means of a light mixture of gas and oxygen. Consciousness can thus be regained in a matter of a few minutes.

This article treats anæsthesia in general terms because the problem of anæsthetic practice is still in the process

of evolution. The progress that has been made has been due to team work between pharmacologists, chemists and medical practitioners. No two operations are exactly the same and discussion of the relative merits of each relaxant involves details regarding the duration of the operation and the organs involved.

MEDICAL ABSTRACTS

DRUG RESISTANCE AND HOOKWORM

EVIDENCE presented by Hallinan (*British Medical Journal*, 1953, 2, 135) suggests that infestation with hookworm which is endemic in malarious areas is a cause of drug resistance to malaria. A chance observation that a malaria patient who had not responded to therapy was excreting hookworm in the faeces led to a large scale study in 1949 in which all cases of malaria were treated for hookworm. The proportion of patients suffering relapses after treatment was significantly less than those for previous years. The author suggests that an anticoagulant injected by the hookworm to prevent clotting while it is obtaining blood, or some other substance injected at the same time may have the effect of preventing the action of antimalarial drugs. It is unlikely that the hookworm absorbs the drugs from the intestine for injected antimalarials have failed to act until hookworm treatment has been given.

CORTISONE ABDOMINAL WALL RUPTURE

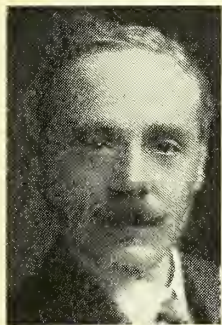
A REPORT on a patient whose abdominal wall became ruptured through a stria during cortisone therapy is given by Lawrence and others (*Journal of the American Medical Association*, 1953, 152, 1526). The patient, a twenty-seven-year-old male, examined after a series of hæmoptysic episodes, was found to have *Mycobacterium tuberculosis* in his sputum and was admitted to hospital and given courses of streptomycin, PAS and amithiozone. After more than a year the abdomen became marked with reddish striae. Three months after transfer to another hospital where daily doses of 12.5 mgm. of cortisone were given, a longitudinal tear occurred in the centre of an abdominal stria and the patient died in a week. The authors mention that cortisone is important in stria formation due to pregnancy, constitutional structure and infections. It retards wound healing by decreasing the production of collagen and delaying the proliferation of fibroblasts. They conclude that the hormone further damages an already weakened abdominal wall.

SIXTY YEARS IN ONE PHARMACY

Reminiscences of Mr. J. R. Burdon, M.P.S., Bury St. Edmunds

By LAURENCE DOPSON

FOR over 120 years—since 1831—there has been a chemist's shop at 12 and 13 Abbeygate Street, Bury St. Edmunds. For more than half of that period Mr. J. R. Burdon, M.P.S., has been associated with it as apprentice, assistant (unqualified and then qualified), part-owner, sole owner, and now part-owner again with his second son Mr. G. H. Burdon, M.P.S. The son represents the third generation of Burdons to be pharmacists, for Mr. J. R. Burdon's father was a chemist and druggist of the 1868 class, and had a shop also in Abbeygate Street, though several doors down from 12 and 13.



Mr. J. R. Burdon, M.P.S., photographed about thirty years ago.

A Denizen of Abbeygate Street

"It was on those premises that I first saw the light, in the street where I now live and work," said Mr. J. R. Burdon. Some of the oldest prescription books of the firm are now in the Bury St. Edmunds and East Suffolk Record Office, and all have been recorded in the National Register of Archives—they were mentioned and illustrated in the article on the National Register of Archives which appeared in *THE CHEMIST AND DRUGGIST*.

Even more interesting as records of changing conditions in society and the profession are the reminiscences of Mr. Burdon. "There may be many pharmacists of my age who have seen all these revolutionary changes in their craft," he remarks, "but I am very probably the only one to have witnessed them from the same establishment all through."

When Mr. Burdon began as an apprentice he worked until 8 every evening except Fridays, when the shop closed at 9 p.m., and Saturdays, when closing time was 10 p.m. And there was no half-day a week. "Later we got to closing at 5 on Thursdays, then at 2, and finally at 1, as we do now," he says. The staff consisted of the "governor" (or manager); senior, middle and junior apprentices (the senior alone receiving payment); a porter, who got £1 a week; and an errand boy, who was paid 5s. It was, of course, "an all-male staff." "The first female did not appear till about 1899. Now we have only females—just assistants, not qualified or even apprenticed." Towards the end of his time the porter took to drinking the 90 per cent. alcohol, which was supplied in 5-gallon lots for tincture-making.

"When I first came I helped to make arsenical sheep dip (soft soap, sulphur and arsenic)," recalled Mr. Burdon. A considerable business was done in veterinary requirements in those days—horse powders, cow drinks, ewe drinks and things of that sort. "I have made hundreds of horse balls, in a large iron mortar. Now we hardly ever even sell such things." Mr. Burdon thinks that the multiple chemists have taken all that kind of business. "Some of our most amusing customers were the shepherds who had their secret remedies; each one thought he knew the cure for foot rot in sheep. Their favourite time for coming in was Saturday evening, and they used to impress upon us that we must not let anyone else see the recipe."

From the days when the making of pills and suppositories was an hourly occurrence, many of the pills having to be varnished and/or silvered, to "the days when we just

count tablets and hand out ethical proprietaries," is how Mr. Burdon describes his span. "I used to make all the galenicals, and had a lovely neat warehouse for the purpose; now, of course, everything is bought. I have made scores of gallons of tinctures, using one of the old screw tincture-presses. Another illustration of the revolution lies in the fact that *all* medicines used to be made with distilled water and the bottles were polished, capped and coated with wax. Now the bottles are hardly wiped! We used to distil our own water for use in the medicine, and in those days we did not use tap water undistilled. The Excise people came and inspected the stills, to see that we were not making alcohol."



An old photograph of the shop, with Mr. Clark, who died in 1924, standing in the doorway.

The shop had a Liebig's condenser for distilling the samples of water which were brought in for analysis. "Now we put what little water analysis we get into the hands of qualified analysts. But I am sure our work was reliable," commented Mr. Burdon.

There was some sale of laudanum in the years before the Dangerous Drugs Acts but in the business it never did much in that way. Mr. Burdon was keen on photography—chiefly pictorial landscape and architecture (cathedrals and ruined abbeys)—and he did all his own developing and printing in Platinotype, carbon, gum-bichromate and occasionally bromide. On the business side, before the 1939-45 war, he had a very prompt developing and printing service, films received early in the morning being ready by night.

Less to be expected was the trade the pharmacy formerly did in soft drinks. They had their own syphons and bottles, which were filled by machinery in the cellar under the shop. The bottles were the old balloon shape with pointed bottom, and the corks were wired in. "I have filled many

a syphon and bottle myself," said Mr. Burdon. There were bottles of soda water and lemonade—"and it was lemonade, too: something better than the thin stuff we get now!"

Mr. Burdon's firm was founded by John Vincent Nunn. Subsequently it became Nunn & Hinnell. On his own first acquaintance with it it was Nunn, Hinnell & Skepper. Edmund Skepper (1825-67) was a well-informed botanist who wrote, in collaboration with J. S. Henslow, a book on *The Flora of Suffolk* (London, 1860). He had previously been a chemist at Harwich. Then the firm reverted to the name of Nunn & Hinnell. Subsequent changes were to Nunn, Hinnell & Summers; Nunn, Hinnell, Summers & Clark; Nunn, Hinnell & Clark; and Nunn, Hinnell, Clark & Burdon, which is the present registered title, though there are only two people in the shop now: Mr. J. R. Burdon and his son (Mr. G. H. Burdon). Mr. J. R. Burdon did not know much of his first master, Mr. Summers, but the shop had "a very good and nice manager, who, after a year or two, joined the 'governor'; then after another year or two the 'governor' dropped out. The new man was an organist and an amateur conductor of orchestral and choral societies, and I, as a self-taught amateur organist and choralist, used to help him quite a lot with his manuscript music."

Telephone Exchange in Pharmacy Basement

The firm not only has an interest for chemists and druggists. In its basement was set up the first telephone exchange in Bury St. Edmunds. There were about twenty-four subscribers. "It was not our own venture, but we ran it for the National Telephone Co.," explained Mr. Burdon. "Of course we did not have it for very long." Next door to Burdon's the chemists is Oliver's the grocers. That shop has fortunately retained the bow windows which were replaced by plate glass in the pharmacy in the 1870's. In the cellar of Oliver's shop electricity was generated for the grocer, the chemist, and two or three other shopkeepers in the street. "It is curious that electric light and the telephone started on private premises next door to each other," remarks Mr. Burdon.

But of all the changes Mr. Burdon has witnessed none are more striking than those in the habits and dress of his customers. "I remember some of the leading tradesmen, bankers, etc., wearing silk hats and frock coats in business," he says. "One or two old ladies used to be taken to church on Sundays in chairs with two wheels, drawn by a man. We still have one of these chairs in our museum," he continued. "I have seen the transition from the days of one or two horse carriages with coachmen and footmen in livery to these days of any old car with any old driver." Those coachmen and footmen who came to the shop for the gentry's orders wore the regulation silk hat with cockade, a blue or black coat of the frock-coat type, and tight white trousers with gaiters turned down at the knee.

Bury St. Edmunds has two market days, and until the internal combustion engine made cars and buses possible, most of the country orders for the ordinary folk were brought in by the carriers. Some of them also brought people into town in their carts and wagonettes. If a carrier brought an order to the chemist he would expect, and get, a penny for it. One of the many old carriers was named Lockwood; he came from the village of Cockfield and was "the last of the breed." "The yards of the inns and 'pubs' on market days used to be crowded with those people and their carts," Mr. Burdon recalled. "The parcels had to be sent; they were taken by our errand boy. He is another part of business life which has vanished, or at any rate, very nearly, of course on account of high wages."

To have served in the same shop from the 1890's to the 1950's is a record to be proud of, and in congratulating Mr. J. R. Burdon on his achievement one may wish continued prosperity to the business whether under his part-ownership or, in the normal course of things, to the eventual sole ownership of his son.

A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS?

Is there available a list of private companies and their directors? What obligations must a company fulfill in respect of its own register of directors?

A "DIRECTORY of Directors," issued annually by Thomas Skinner & Co. (Publishers), Ltd., London, includes a large number of private companies. As new companies are formed and names drop out through death or retirement, etc., the list cannot be up-to-the-minute. The names of all other companies incorporated in Great Britain in which directors hold directorships must be included in the annual return of a company submitted to the Registrar of Companies at Bush House. Exceptions to that rule are wholly-owned subsidiaries or wholly-owning holding companies; or companies which are wholly-owned by the same holding company. Every company must keep at its registered office a register of its directors, which must contain particulars of any other directorships (subject also to the above exceptions). The register must be open not less than two hours each day for inspection of any member without charge and of any other person on payment of not more than one shilling.

Our financial year ended on March 31. In valuing stock, it has been decided to ignore subsequent purchase-tax reductions affecting that stock, as it is considered that the loss incurred is properly applicable to the period after the introduction of the Budget. Can we, however, obtain income-tax relief on the loss back-dated to the financial year just ended?

STOCK-IN-TRADE should usually be valued for income-tax purposes at cost or market value, whichever is the lower at the time of valuation. If, however, the anticipated selling price of any part of the stock is less than the cost, there should be no difficulty in obtaining the agreement of the inspector of taxes to its inclusion at the anticipated or since-known selling price.

SUSPECTED WARFARIN POISONING IN BITCH

A CASE of suspected warfarin poisoning in a pregnant Collie bitch is described by Boddie and Burgess (*Veterinary Record*, 1953, 65, 398). The owner gave a history of having put down warfarin-baited oatmeal at frequent intervals during the preceding four or five weeks. The bitch had been seen eating the oatmeal, but when no immediate effects were produced, no precautions were taken to prevent the animal eating more at intervals. The bitch was observed by her owner to be rather listless. The next day what were described as large blood clots or pups were seen being expelled. On admission to hospital the bitch was extremely weak, the slightest exertion causing severe dyspnoea. The visible mucous membranes were dead white; temperature was 101.2° F. The pulse was fast but remarkably strong considering the animal's condition. There was a non-foetid chocolate-coloured slightly granular discharge from the vulva. A foetus could not be identified confidently. It was decided to open the abdomen to perform either a Cæsarean section or hysterectomy to check the loss of blood. The uterus was removed. Recovery was assisted by six daily injections of 5 mgm. of menaphthone, B.P. By the sixth day after the operation the visible mucous membranes had taken on an appreciably pink tinge. The authors conclude that the anticoagulant action was most marked in relation to the highly vascular pregnant uterus where it was finally responsible for abortion followed by persistent uterine hæmorrhage. It was possible that if the bitch had not been pregnant she would not have suffered so severely from the anticoagulant effect of the warfarin. While the use of menaphthone no doubt contributed to the recovery it is thought that the two major factors in recovery were that the bitch was withdrawn from further access to warfarin and that blood loss had been prevented.

A SWEDISH "N.H.S." PLAN

The Present Scheme and Future Provisions

By ALLARD EDHORN

ON May 26, the Swedish Riksdag passed a resolution that a compulsory sickness insurance should come into force on January 1, 1955. This new law is a re-draft of a law for a compulsory sickness and injury insurance passed in 1947, but suspended because of financial difficulties.

In Sweden, I think, the socialisation of social welfare has occurred more slowly, more purposefully and less noticeably than in Great Britain. There is already in Sweden a scheme for the care of the sick which is largely paid for by the State and local authorities. The sick fund system has in fact developed enormously in Sweden in recent times, and about 65 per cent. of the Swedish people are directly or indirectly members of a sick fund.

Only the Principles Stated

The present law only states the principles of the health scheme. The details will be worked out in subsequent decrees. The law lays down a schedule of a basic sickness benefit pay that aims at the sickness benefit being the same as the ordinary daily salary up to ninety days. Beyond that there will be a reduction in benefit for up to two years for the higher income grades. Even foreigners who are registered in Sweden have a right to sickness benefit. The law outlines certain rules for free medicine. Some drugs of vital importance are to be free, while others are to be obtainable at two-thirds of the real cost. Further details will be submitted to the Riksdag next year for decision. The sickness insurance will also pay for three-quarters of the doctors' fees, and medical care in the district hospital will be quite free. The total cost of this insurance is calculated to 738 million Sw. Cr. (£51 million) and will be made by contributions as follows: The insured, 44 per cent.; the State, 29 per cent.; the employer, 27 per cent. The tax is to be deducted from salaries. The State expenditure for the insurance will require new taxes to be levied.

Sweden has 7,050,000 inhabitants and the total number of physicians is about 5,300. The country is divided in town doctors' districts and country medical officers' districts, the doctors in charge being responsible for the care of all inhabitants in their area. There are 230 town districts with 220 doctors and about 570 medical officers' districts with about 510 country medical officers. In each district there are on average about 10,000 persons, with one doctor to every 1,330 persons.

The district doctors have a fixed salary from the State (about one-third of their income). In addition they have a right to take fees from their patients. They are official doctors with a degree of personal liberty (which they are anxious for the State not to circumscribe further). Besides district doctors there are about 600 private doctors. Nearly half of them are specialists and the remainder are general practising doctors. They are not bound to certain fees but are under the ultimate discipline of the Government Medical Board.

In each of the twenty-four provinces in Sweden there is a central hospital and often a few smaller hospitals. The Swedish hospitals are generally run by the "county councils" (*landsting* of which there is no counterpart in English). The "county councils" receive contributions from the State to run its "medical care." The specialists in hospitals are paid entirely by the hospital for the in-patient care. Fees from out-patients are remitted, less a small deduction for rent to the specialists.

Sweden has about 4,000 dentists, mostly in private practice. The Public Dental Care scheme (for children and young people) needs 2,500 dentists.

The country is divided into 2,000 nurses' districts and about 1,000 midwives' districts. Both of these types of worker have their salaries from the "county councils." All schoolchildren are inspected by a doctor at least once a year and most schoolchildren have to visit a dentist every year. The most serious lack in Sweden is of doctors, nurses and other hospital workers.

Complaints that the poor are not able to afford necessary medical care is no longer reasonable, at least not so far as young and middle-aged persons are concerned, who are as a rule members of a sick fund. About half of the sick funds in Sweden are used to pay one half of the costs of medicine. For indigent patients the community pays for medical care and medicine. Certain drugs are even now supplied free generally. They include insulin, liver and vitamin B₁₂ preparations. Expectant mothers and children may also be supplied free with listed medicines.

Thus the sickness insurance promises in Sweden a new and improved care of the sick. The main difference from the present arrangement seems to be, that there will be a compulsory insurance instead of a voluntary one.

The political background to the introduction of the reform is that Sweden has had a socialist majority in her Second Chamber since 1932. The majority, however, decreased at the last election and the social democrats have formed a coalition with the Farmers party. That party holds the balance in its hands, and further socialisation measures are expected. For many years Dr. Axel Höjer was the head of the Medical Board. He was an active apostle of socialisation and fought a bitter struggle against the medical profession. He has now been replaced by the more moderate Dr. Engel. The record speed with which the reform was carried through must be seen against the background of a decreasing parliamentary majority and increasing schism in the Farmers party. The scheme was worked out in a great hurry and was forced in Committee. The report of the Committee was not ready until the day before the law had to be discussed in the Riksdag, a few days before its adjourning. Nobody has had enough time to get properly into this far-reaching subject. Necessary consideration has not been paid to such expert reports as that from the medical profession. Neither has there been time enough to study foreign — particularly English — schemes and observations on the subject.

A PHARMACIST'S ANTHOLOGY

M. ADAM's pharmacy in the rue des Marchands was of the middle rank, neither beggarly, nor grandiose, but solidly provincial. Too modest for mummies or a rhinoceros horn, it could yet boast of several West Indian turtles, the fetus of a whale and an eight-foot crocodile. And the stock was plentiful and varied. On the shelves were all the herbs of the Galenists' repertory, all the new-fangled chemicals of the followers of Valentine and Paracelsus. Rhubarb and aloes were there in plenty; but so was calomel or, as M. Adam preferred to call it, *Draco mitigatus*, the mitigated Dragon. There was colocynth, if you liked a vegetable liver pill; but there was also tartar emetic and metallic antimony, if you were ready to venture on a more modern treatment. And if you had had the misfortune to be lucky in love with the wrong kind of nymph or swain, you could take your choice between *Arbor vitæ* and *Hydrargyrum cum Creta*, between Sarsaparilla and an inunction of Blue Ointment. With all these, as well as with dried vipers, horses' hoofs and human bones, M. Adam could supply his customers out of stock. The more costly specifics—powdered sapphires, for example, or pearls—had to be specially ordered and paid for in advance.—From "*The Devils of Loudun*," by Aldous Huxley.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietary:—

LUTROGEN.—20 mgm. Progesterone and 2 mgm. oestradiol benzoate per mil in oily solution. For menstrual disturbances such as amenorrhoea, menorrhagia, suppression of lactation, and early diagnosis of pregnancy. Dose: according to indication and administered intramuscularly. Packs. 2 ampoules of 1 mil and bottles of 5 mls. Made by Farbwerke Hoechst, A.G., Frankfurt-am-Main, Höchst. (*Apothekerztg.*, June.)

QUERCUSID OINTMENT.—Extract of acorn obtained by a special method with added vitamin C and menthol. Indicated in acute and chronic rhinitis, slight burns and scalds, pruritis, irritating dermatoses of all kinds, hyperhidrosis, etc. The ointment should be applied three or four times daily, after thorough cleansing of nose. For surfaces, apply on lint two or three times daily. Packed in tubes of 15 gm. Issued by Pharmazeutisches Laboratorium, Dr. Drantz, O.H.G., Munich. (*Pharm. Ztg., Nachrichten*, June 5.)

ALK-ANAL.—Sodium saponified unsaturated fatty acids of cod liver oil in a special ointment base, with carvasept soap solution and oleic acid allyl esters. For haemorrhoids, pruritis, cracked nipples, and after operations for haemorrhoids. Dose: Morning and evening and after every stool, deep in anal passage. External haemorrhoids and painful surfaces, spread the ointment on the affected part. Packed in tubes of 20 gm. by Chemische Fabrik von Heyder, A.G., Munich. (*Pharm. Ztg., Nachrichten*, June 5.)

GLUTISAL—parenteral. —Salicylamide-amidopyrin 25 per cent., *p*-aminobenzoyl-diethylaminoethanol hydrochloride 2 per cent., solvent to 5 c.c. Indicated in rheumatism, arthropathia, neuralgia, neuritis, painful conditions of various origins, etc. Dose: Slight cases: one injection *pro die*; medium cases: one injection daily for a week; severe cases: one to three injections *pro die*. Packs of five ampoules of 5 c.c. Made by Ravensberg G.m.b.H., Konstanz. (*Pharm. Ztg., Nachrichten*, June 5.)

NEPRESOL.—Sulphate or methanesulphonate of 1:4 dihydrazinophthalazin. Indicated in essential hypertonias; high blood pressure in the intoxications of pregnancy; and in acute glomerulonephritis. Dose: average, half to one tablet, three times during the first day, and then one to two tablets three times daily, or according to individual case. Packs of forty and 250 tablets; also five and twenty ampoules of 25 mgm. in 1 c.c. Issued by Ciba, A.G., Wehr/Baden. (*Pharm. Ztg., Nachrichten*, June 5.)

PASIMYCIN OINTMENT (yellow). —Penicillin G 1,000 i.u., dihydrostreptomycin sulphate 5,000 i.u. per gm., and hesperidin-methylchalcone in a non-irritant base. Indicated in skin infections with gram-positive or gram-negative germs—acne necrotica and conglobata, erysipelas, folliculitis, pemphigus neonatorum, otitis externa, etc. After removal of any scabs or scales, the ointment is applied direct, or preferably on sterile gauze, once or twice daily. Packed in tubes of five and 25 gm. Issued by Deutsche Novocillin Gesellschaft m.b.H., München-Pasing. (*Pharm. Ztg., Nachrichten*).

MULTIBIONTA.—Each capsule contains vitamin A palmitate 2,500 i.u., aneurin 1 mgm., lactoflavin 1.5 mgm., nicotinamide 15 mgm., calcium pantothenate 5 mgm., vitamin B₆ 2 mgm., vitamin B₁₂ 1 μ gm., folic acid 0.25 mgm., vitamin C 50 mgm., vitamin D₂ 0.0125 mgm. (= 500 i.u.), α -Tocopherol acetate 2 mgm. Indicated in prevention and treatment of vitamin deficiencies of various origins. Dose: Prophylactic, one to two capsules; therapeutic, three to six capsules daily, with a little liquid. Packed in bottles of twenty capsules, also in hospital packings by E. Merck, Chemische Fabrik, Darmstadt. (*Arzneimittel-Forschung*, June.)

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

THEODROX with phenobarbitone

MANUFACTURER: Riker Laboratories, Ltd., 29 Kirkewhite Street, Nottingham.

DESCRIPTION: Tablets, each containing aminophylline, gr. 3; aluminium hydroxide gel, dried, gr. 4; phenobarbitone, gr. $\frac{1}{2}$.

INDICATIONS AND DOSAGE AND HOW SUPPLIED: As Theodrox (q.v.).

FIRST ISSUED: September 1953.

NOTE: The tablets are coloured yellow, to distinguish them in particular from Theodrox (q.v.).

THEODROX

MANUFACTURER: Riker Laboratories, Ltd., 29 Kirkewhite Street, Nottingham.

DESCRIPTION: Tablets, each containing aminophylline, gr. 3; aluminium hydroxide gel, dried, gr. 4.

INDICATIONS: Congestive heart failure, bronchial or cardiac asthma, status asthmaticus, angina pectoris.

DOSAGE: Varies according to the condition.

HOW SUPPLIED: Bottles of twenty-five, 100 and 1,000 tablets.

FIRST ISSUED: September 1953.

NOTE: The tablets are coloured white to distinguish them in particular from Theodrox with phenobarbitone (q.v.).

GRANEODIN OINTMENT

MANUFACTURER: E. R. Squibb and Sons, 17 Old Bond Street, London, W.1.

DESCRIPTION AND FORMULA: An antibiotic combination for topical application. An ointment containing in each 1 gm.: Neomycin, 2.5 mgm.; Gramicidin, 0.25 mgm.

INDICATIONS: (1) Bacterial infections of skin such as impetigo contagiosa, impetiginised dermatitis, furunculosis, sycosis vulgaris, cutaneous ulcers, perleche (streptococcal type), etc. (2) Otitis externa. (3) Blepharitis of bacterial origin, hordeolum.

USE: Apply freely several times daily.

HOW SUPPLIED: In tube containing 15 gm.

FIRST ISSUED: July 1953.

REFERENCES: Kile and others, *Jl. Amer. med. Assoc.*, 1952, **148**:339; Livingood and others, *ibid.*, 334.

DIETHYLCARBAMAZINE acid citrate tablets

BRAND NAME: ETHODRYL.*

MANUFACTURER: The British Drug Houses, Ltd., Graham Street, London, N.1.

DESCRIPTION: Tablets of Diethylcarbamazine acid citrate. B.P.C. Supplement, 1952.

HOW SUPPLIED: Bottles of twenty, 100 and 1,000 tablets.

FIRST ISSUED: June 1953.

* Cross reference for card index:

ETHODRYL: see tablets of diethylcarbamazine acid citrate.

BISMUTHO

MANUFACTURER: C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.C.2.

DESCRIPTION: Powders each containing: Bismuth carbonate, gr. 75; magnesium carbonate, gr. 15; calcium carbonate, gr. 15; ol. menth. pip., min. $\frac{1}{2}$; together with tablets each containing: Phenobarb., gr. $\frac{1}{2}$; ext. bellad. sicc., gr. 1/12.

INDICATIONS: Peptic ulcer and allied dyspeptic conditions.

DOSAGE: In dyspepsia without definite ulceration one powder and tablet three times daily for ten days. In cases of ulcer it may be necessary to continue the treatment for a further ten days.

HOW SUPPLIED: A powder and tablet are packed in a unit in cartons of thirty doses (a complete course).

FIRST ISSUED: August 1953.

STREPTAQUAINE

MANUFACTURER: The Distillers Co. (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19.

DESCRIPTION: A stabilised sterile solution containing: Streptomycin sulphate, 250,000 units per mil. Phenol 0.5 per cent, as bacteriostat, and stabilising agents are included.

INDICATIONS: Infections, chiefly tuberculous, susceptible to streptomycin.

DOSAGE: Intramuscularly, as for streptomycin. Not suitable for intrathecal administration.

HOW SUPPLIED: Vials each containing 4 mls in boxes of five.

FIRST ISSUED: September 1953.

NOTES: The preparation is stable for twelve months if stored at temperatures below 20° C. (68° F.).

DIBENCIL ORAL SUSPENSION

MANUFACTURER: Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester.

DESCRIPTION: A flavoured aqueous suspension of N:N'dibenzylethylenediamine dipenicillin G buffered with sodium citrate. Each 5 mls contains 300,000 units of penicillin. (A standard teaspoonful 3.5 mls) containing approximately 200,000 units.)

INDICATIONS: Infections where oral penicillin is indicated.

DOSAGE: Adults and children, 300,000 units (one large teaspoonful) every six hours, given preferably half an hour before meals. Prophylaxis: 300,000 units at eight-hourly intervals, one day before and for 4 days after operation.

HOW SUPPLIED: Bottle of 50 c.c.

FIRST ISSUED: September 1953.

MIXTAMYCIN

MANUFACTURER: The Distillers Co. (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19.

DESCRIPTION: A mixture of equal parts of streptomycin and dihydrostreptomycin sulphates.

INDICATIONS: Infections susceptible to streptomycin and dihydrostreptomycin alone, chiefly, certain types of tuberculous infection such as miliaary tuberculosis, pulmonary tuberculosis and tuberculous meningitis.

DOSAGE: Intramuscularly, as for streptomycin. Not normally given intrathecally.

HOW SUPPLIED: Vials, each containing 500,000 units of each antibiotic.

FIRST ISSUED: June 1953.

NOTES: Dose for dose, the incidence of ototoxic reactions associated with prolonged administration of streptomycin or dihydrostreptomycin alone is reduced.

REFERENCES: Hinshaw and Heck, National Tuberculosis Association Meeting, Los Angeles, May 18-22, 1953.

SODIUM POLYSTYRENE SULPHONATE

BRAND NAME: **RESONIUM A**.*

MANUFACTURER: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

DESCRIPTION: A sulphonic cation exchange resin charged with sodium.

INDICATIONS: Removal of excess potassium in anuria and oliguria associated with shock, incompatible blood transfusion, crush injuries, prostatectomy and uræmia in chronic glomerulonephritis.

CONTRAINDICATIONS: Hypokalaemia.

DOSAGE: Adults: 15 gm, three or four times daily. Children: 5 gm. mixed with food or drink; or by Ryles tube or rectally.

HOW SUPPLIED: In tins containing 1 lb., to hospitals only.

NOTES: Relatively non-toxic but must be taken with laboratory control. May cause hypokalaemia.

REFERENCES: Bull and colleagues, *Lancet*, 1953, **265**, 60.

*Cross reference for card index.

RESONIUM A: See sodium polystyrene sulphonate.

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies":—

NICOZIDE TABLETS.—Brand of isoniazid tablets issued in strengths of 50 and 100 mgm. by Premo Pharmaceutical Laboratories, Inc., South Hackensack, New Jersey.

PHENTOLAMINE HYDROCHLORIDE.—2-(N-(m - hydroxyphenyl) - p - toluidion)methyl - 2-imidazoline hydrochloride. Suitable for oral administration and acts as a potent adrenergic blocking agent, producing adrenergic and sympatholytic effects. In comparatively small amounts, it effectively reverses the hypertensive action of injected adrenalin. In certain cases the drug has been shown to be beneficial in the treatment of the sequelae of frostbite and immersion foot and has produced favourable responses in other vasospastic conditions, including Raynaud's disease and vasospasm associated with trophic ulcers of the extremities. It has proved valuable, in some patients, as an antihypertensive agent. It is relatively non-toxic, but oral administration of the drug may produce untoward side-effects, such as tachycardia, orthostatic hypotension, nasal stuffiness, and gastrointestinal disturbances such as nausea, vomiting, and diarrhoea. Adult dose, 50 mgm. 4-6 times daily; children, 25 mgm. Ciba Pharmaceutical Products, Inc., Summit, New Jersey, issue 50 mgm. tablets as Regitine hydrochloride.—The methanesulphonate is used for parenteral injection in the diagnosis and surgical management of hypertension caused by pheochromocytoma and for the uses described for the hydrochloride. Adult dose, 5 mgm. in 1 mil of sterile water; children, 3 mgm. intramuscularly or 1 mgm. intravenously. Ciba Pharmaceutical Products issue lyophilised Regitine methanesulphonate in 5 mgm. ampoules each packaged with a 1-mil vial of water for injection.

MISCELLANEOUS INQUIRIES**"Fluffy" Cleansing Cream**

Can you provide a formula for "fluffy" type cleansing cream?

"FLUFFY" cleansing creams usually contain a fairly large proportion (up to 30 per cent.) of stearic acid. Below we give one or two typical formulas:—

Stearic acid	...	...	24.0
Water	...	...	64.0
Glycerin	...	...	10.51
Potassium hydroxide	...	...	0.99
Perfume	...	...	0.5

Melt the stearic acid. Dissolve the potassium hydroxide in the water, add glycerin, and heat to 85° C., and slowly add to melted stearic acid with constant stirring. Perfume at 40° C.

Stearic acid	...	...	15.0
Cetyl alcohol	...	...	0.5
Glycerin	...	...	5.0
Potassium hydroxide	...	...	1.0
Water	...	...	78.5

The amount of stearic acid can be increased to 30 per cent. with a proportionate adjustment of the potassium hydroxide.

Stearic acid	...	...	30.0
Triethanolamine	...	...	1.75
Potassium hydroxide	...	...	1.3
Water	...	...	69.0
Glycerin	...	...	5.5
Perfume	...	...	0.5

Melt the stearic acid. Make a hot solution of the alkali, triethanolamine and the water, add the glycerin. Add the alkali solution to the stearic acid and mix until emulsified. Perfume at 40° C.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, SEPTEMBER 30: In the PHARMACEUTICAL CHEMICALS market during the past week British manufacturers made a number of price adjustments in certain alkaloids and their salts. They included ATROPINE, HOMATROPINE and ERGOMETRINE all of which were lower. Prices for THEOBROMINE and PAPAVERINE HYDROCHLORIDE continue to be extremely competitive. BENZOCAINE offers show slight reductions from previous levels.

As in past months many inquiries were received from the Continent for CRUDE DRUGS but few resulted in actual orders. The main feature in the market was again provided by IPECACUANHA for which firmer prices were again recorded. Although there is little home demand for the root all parcels are taken up immediately they are offered and the waiting period for shipment from origin continues to grow. CASCARA SAGRADA and MENTHOL (Chinese) were also firmer at origin, but spot supplies were not affected. BUCHU is reported to be short at origin, but supplies here are believed to be adequate. Cheaper shipment offers were available for all grades of Cape ALOES, the prime variety being 2s. cheaper at 154s. per cwt., c.i.f. Among AROMATIC SEEDS, Dutch CARAWAY remained firm with sellers now quoting 100s. per cwt., duty paid, against 90s. in the previous week and 82s. 6d. a fortnight ago. CORIANDER also was firm with the Moroccan offered at 60s. per cwt., duty paid. There were no important price changes in the ESSENTIAL OILS market and business was restricted to replacement lots.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, SEPTEMBER 30. — Price uncertainty continues to affect forward GLYCERIN sales. With rumours of a further decline being likely in refined quotations, soap-lye material is now quoted at 20 cents per lb. (down 2 cents) and saponification glycerin at 22 cents (2 cents). Synthetic glycerin has been reduced by six cents per lb. to the level of the natural product.

A further decline brought Brazilian MENTHOL down to \$5.45 per lb. (5 cents), with little buying interest. Fir-

mer among BOTANICAL DRUGS were QUINCE SEED at \$1.35 per lb. (up 25 cents) and IRISH MOSS at 27 cents (2 cents). Lower per lb. were PAPAIN at \$5.25 for the Ceylon variety (down 25 cents) and \$6.85 for the African (15 cents); and HYDRASTIS ROOT, N.F., at \$2.25 (25 cents). Spanish LAVENDER SPIKE OIL was firmer at \$1.45 (up 10 cents) and Mexican LIME OIL advanced to \$5.50 (5 cents). Lower per lb. were natural Italian BERGAMOT at £10.50 (down 50 cents) and PENNYROYAL at \$1.60 (15 cents).

Pharmaceutical Chemicals

ATROPINE. — Rates (per container) for British material are: —

	25 gm.	100 gm.	500 gm.
	s. d.	s. d.	s. d.
ALKALOID ..	36 0	137 6	661 6
SULPHATE ..	28 3	110 0	529 0

BENTONITE. — Offers of B.P. material are about £70 per ton as to quantity.

BENZOCAINE. — Lower. Minimum price for B.P. is 20s. 6d. per lb.

CHALK. — In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

CHLOROFORM. — 1-cwt. lots in winchesters are now 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d.

CITRATES. — Rates (per lb.) are as follows: — POTASSIUM, 1-cwt. lots, 3s. 10½d.; 28-lb., 4s. 10d.; SODIUM, 1-cwt., 3s. 3½d.; 28-lb., 4s. 2d. (powder of both salts two-pence more).

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P., is £37 10s. per gm. and the TARTRATE, £34 15s. per gm.

HOMATROPINE. — Rates (per container) for British material are as follows: —

	25 gm.	100 gm.	500 gm.
	s. d.	s. d.	s. d.
ALKALOID ..	83 0	307 0	1,411 0
HYDROBROMIDE ..	60 0	222 3	1,014 0
HYDROCHLORIDE ..	60 0	222 3	1,014 0
METHYLBROMIDE ..	69 0	254 0	1,147 0

HYDROCYANIC ACID. — Dilute B.P.C. is from 1s. 4d. to 1s. 11d. per lb., as to quantity; Scheele's is from 1s. 8d. to 2s. 3d.

IODINE and preparations. — Quotations are as follows: —

B.P. materials	Per lb.		Per kilo	
	1-cwt.	28-lb.	50 kilos	12½ kilos
	s. d.	s. d.	s. d.	s. d.
POTASSIUM IODIDE ..	14 4	14 10	31 7	32 8
SODIUM IODIDE ..	15 10	16 4	34 11	36 0
IODINE, RESUB. ..	15 10	16 4	34 11	36 0
IODOFORM POWDER ..	25 4	25 10	55 10	57 0
IODOFORM CRYSTAL ..	28 0	28 6	61 8	62 10

The prices of minor iodides in 7-lb. and 1-lb. lots are: — AMMONIUM, 21s., 21s. 6d.; ARSENIC TRI- 47s., 48s.; CADMIUM, 22s., 22s. 6d.; CALCIUM (PLATES), 21s. 6d., 22s.; ETHYL, 27s., 28s.; IRON, 23s., 23s. 6d.; LEAD, 22s., 22s. 6d.; LITHIUM, 28s., 28s. 6d.; STRONTIUM, 22s. 3d., 22s. 9d.; ZINC, 27s., 27s. 6d.

LACTATES. — CALCIUM, B.P., is 2s. 7d. per lb. in 5-cwt. lots, and 2s. 8d. per lb. for 1-cwt. CALCIUM SODIUM, B.P.C., for

the same quantities is 4s. 4d. and 4s. 5d. per lb. LACTIC ACID, B.P., in 12 winchester lots is 4s., and 3 winchesters, 4. 4d. per lb. Carboys are 3s. 9d. per lb.

LACTOSE. — English, in 1-ton lots packed in 1-cwt. paper-lined sacks is £137 per ton, delivered in the United Kingdom.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton, according to size of crystal and manufacturer. Exsiccated is £34 per ton.

POTASSIUM HYDROXIDE. — B.P. sticks are from 6s. 6d. per lb.

POTASSIUM NITRATE. — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

POTASSIUM PERMANGANATE. — Rates for B.P. material for 1-cwt. lots is 1s. 8½d. per lb., and for technical, 181s. 6d. per cwt.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

PYROGALLIC ACID. — Pure crystals are 18s. per lb. in 1-cwt. lots.

SANTONIN. — The following prices now apply in the home market, including Eire: — 5-kilo lots, £63 per kilo; 2.4-kilo lots, £54 10s.; 1-kilo, £66; 500 gm., £67 10s.; 250 gm., £69; smaller quantities, £72.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots in paper-lined bags is £33 2s. 6d. per ton; 1-cwt., £2 1s. 8d.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards, as to quantity.

THEOBROMINE. — Prices are as follows: —

	1-cwt.	28-lb.	7-lb.
	s. d.	s. d.	s. d.
ALKALOID, B.P.C. ..	19 6	19 9	20 3
and CALCIUM SALICYLATE ..	17 0	17 3	17 9
and SODIUM SALICYLATE, B.P. ..	14 0	14 3	14 9

Lower quotations for 5-cwt. lots.

Methylated Spirits

METHYLATORS' rates per gall. in Great Britain are as follows: —

Industrial methylated spirit: Strength 61 o.p., 500 gall. and over in one delivery, 5s. 0½d.; 100 gall. and under 500 gall., 5s. 2½d.; 30 gall. and under 100 gall., 5s. 4½d.; 10 gall. and under 30 gall., 5s. 6½d.; 5 gall. and under 10 gall., 5s. 9½d. Strength 64 o.p., 1d. per gall.; 66 o.p. (B.P.), 2d.; 68 o.p., 2½d.; and 74 o.p., 8d. more than the above rates. Tank wagon delivery: One halfpenny per gall. off list price: — minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are 5d. per gall. above foregoing prices.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 3½d.; 100 gall. and under 500 gall., 5s. 5½d.; 30 gall. and under 100 gall., 5s. 7½d.; 10 gall. and under 30 gall., 5s. 9½d.; 5 gall. and under 10 gall., 6s. 0½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 7d.; 30 gall. and under 100 gall., 5s. 9d.; 10 gall. and under 30 gall., 5s. 11d.; 5 gall. and under 10 gall., 6s. 2d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and methylated shellac finish, 1s. per gall. over the prices for pyridinised methylated spirit.

TERMS: — Delivered free and carriage paid on returned empties; net cash one month.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria ..	Piastres to £	97½-97½
*Amsterdam ..	Florins to £	10.56-10.72
*Bombay ..	Shillings to rupee	1/5½-1/6½
Brussels ..	Francs to £	138.95-141.05
Copenhagen ..	Kronor to £	19.19½-19.48½
Dutch West Indies ..	Florins to £	5.24-5.32
*Hong Kong ..	Shillings to \$	1/2½-1/2½
*Karachi ..	Shillings to rupee	2/1½-2/1½
Lisbon	Escudos to £	79.90-81.10
*Montreal ..	Dollars to £	2.74½-2.74½
T.T.	Dollars to £	2.78-2.82
New York ..	Kronor to £	19.85-20.15
Oslo ..	Francs to £	972.6-987.3
Paris ..	Kronor to £	14.37½-14.59½
Stockholm ..	Shillings to £	2/3½-2/4½
*Singapore ..	Francs to £	12.15½-12.33½
Zurich	Francs to £	12.15½-12.33½

*Free market rates; remainder Bank of England.

Crude Drugs

AGAR. — Kobé No. 1 on the spot is 17s. 6d. per lb.

BALSAMS.—Quotations (per lb.) are:—*Canada*: New-crop, 22s. 6d., spot. *Copaiba*: Soluble Para, spot, 12s. *Peru*, 9s., in bond. *Tolu* (genuine as imported), 18s. 6d., spot.

BENZON. — Good quality Sumatra block on the spot is scarce at £31 per cwt. No. 1 for shipment, £28, c.i.f.

BISMUTH. — In minimum 4-cwt. lots METAL was reduced to 16s. per lb from September 28.

BUCHU. — Short, round leaves are offered at 1s. 11d. per lb.

CAPRICUMS.—East African on stalk are 150s. per cwt., spot, and 130s., c.i.f., off stalk, 205s., and 170s., c.i.f.

CARDAMONS. — Aleppy greens for September-October shipment are 9s. per lb., c.i.f., and 9s. 6d. for spot. No. 1 seeds are 14s. per lb., spot.

CASCARA SAGRADA.—Offers for shipment are firmer at 245s. per cwt., c.i.f., for shipment. Spot supplies are unchanged at 290s., duty paid.

CINNAMON.—Firm. Ceylon for shipment (c.i.f.), OOOO, 2s. 10½d.; OOO, 2s. 9½d.; OO, 2s. 8½d.; O, 2s. 7½d.; firsts, 2s. 3d.; seconds, 2s. 2d.; thirds, 2s. 1d.; quillings, 1s. 5½d.; featherings, 11½d., chips, 6½d. per lb.

CLOVES. — Zanzibar on the spot are 8s. 6d. per lb.; prompt shipment, 5s. 3d., c.i.f.

ERGOT. — Portuguese for shipment is easier at 21s. per lb., c.i.f. Business has been done on the spot at 22s.

GINGER.—African on the spot, f.a.q., 85s. per cwt. and for shipment, 80s., c.i.f. Jamaican No. 3 is 105s. on the spot, and 100s., c.i.f., for shipment.

GUM ACACIA. — Kordofan cleaned sorts on the spot are 97s. 6d. per cwt.; afloat, 89s.; and for October shipment 88s.

HONEY.—Quiet. Australian, from 95s. to 105s., spot (90s. to 100s., forward); Argentine on the spot is 112s. to 120s.; Jamaican, unchanged at 120s. to 130s., ex warehouse terms.

HYDRASTIS. — Root is 22s. per lb., landed terms.

IPECACUANHA. — Very firm. Shipment (per lb., c.i.f.): Colombian, 45s.; Matto Grosso, 45s.; Nicaraguan, buyers at 50s. but no offers. Spot: Matto Grosso, 46s.; Nicaraguan, 52s. 6d. nominal.

KARAYA.—No. 1 gum on the spot is unchanged at 200s. per cwt.; No. 2 is 140s.; No. 1, for shipment, 185s., c.i.f.

KOLA NUTS.—African halves are available on the spot at 4½d. per lb., 3½d., c.i.f., for shipment.

LIQUORICE.—Natural whole root, spot; Anatolian, 55s. per cwt.; Russian, 38s.; Syrian, 40s. to 42s. 6d. Block juice quotations are 195s. per cwt., delivered. Turkish stick is 240s. and Italian stick, 475s. per cwt., both duty paid.

MACE. — West Indian pale blade is 7s. 9d. per lb., for shipment, 6s. 10½d., c.i.f.

MENTHOL. — Spot is unchanged with Brazilian at 37s. per lb., and Chinese, 38s., both duty paid. Shipment (c.i.f.): Brazilian, 35s., Chinese, firmer at 32s.

MYRRH.—Aden selected sorts are quoted at £16 per cwt. on the spot. Siftings are from £7 10s. to £8 10s., and granulated £13.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 6d., c.i.f., for shipment.

ORANGE PEEL.—Thin-cut is 2s. 2d. per lb., duty paid.

ORRIS ROOT.—Offers of average quality Florentine are 160s. per cwt., nominal. ex-warehouse.

PAPAIN.—Unchanged. Spot values for East African grade one are 32s. 6d. per lb., and grade two, 30s. per lb.

PODOPHYLLUM.—*Emodi* root on the spot is 170s. per cwt. *Peltatum*, 336s.

PEPPER. — White Sarawak is 8s. to 8s. 1½d. per lb., spot, with 7s. 7½d. to 7s. 9d., c.i.f., quoted for afloat. Black Malabar is quoted on spot at 990s. to 1,000s. per cwt. Prompt shipment has advanced to 930s., c.i.f. Black Sarawak, spot, 7s. 3d. per lb., afloat, 6s. 9d., c.i.f.

QUASSIA. — Shipment offers are about 31s. 6d. per cwt., c.i.f.

SANDARAC. — Morocco is offering on the spot at 12s. per lb.

SARSAPARILLA. — Jamaican native red is scarce on the spot with a nominal value of 2s. 9d. per lb. Forward offers at 2s. 5½d., c.i.f.

SASSAFRAS.—Bark is offered at 4s. 9d. per lb., on the spot.

SEEDS.—ANISE.—Spot, Cyprian is 140s. per cwt., duty free; and Turkish, 142s. 6d., duty paid. CARAWAY.—Dutch remains firm. Sellers now quoting 100s. per cwt., duty paid. CELERY.—Indian unchanged at 1s. 11d. per lb., quoted spot London. CORIANDER.—Market remains firm. Spot, Moroccan is 60s. per cwt., duty paid (55s. in bond); English, 70s. to 72s. 6d. Moroccan for prompt shipment is quoted at 47s. 6d. per cwt., c.i.f. CUMIN.—Steady. Spot, Cyprian is 135s. per cwt.; Maltese, 150s.; Moroccan, 130s., duty paid. Moroccan has sold at 102s. 6d., c.i.f. for shipment. DILL.—Indian is unchanged at 85s. per cwt., spot London. FENNEL.—Quiet. Indian is quoted at 170s. per cwt., spot London. FENUGREEK.—Unchanged. Moroccan spot is 47s. 6d. per cwt., duty paid. MUSTARD.—English 75s. to 80s. per cwt., according to quality.

SHELLAC. — Spot quotations are:—F.O.T.N. pure, 265s.; F.O. standard No. 1, 272s. 6d.; fine orange, 285s. to 310s. per cwt., ex-London warehouse.

SLIPPERY ELM BARK.—Selected slabs are 3s. 9d. per lb., and grinding quality, 3s. spot.

SQUILL.—Italian white on the spot is 60s. per cwt.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot, and European, 97s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is quoted at about 15s. per lb., on the spot, and *Gratus*, 25s. per lb., nominal.

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TRAGACANTH.—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Unchanged. Spot, Rajapore, 115s. per cwt. in small quantities. Madras finger, 120s., nominal.

UVA URSI.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s. per cwt. on the spot and 125s., c.i.f.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES. — Dar-es-Salaam spot, 430s. per cwt., September-October shipment, 395s., c.i.f.; Sudanese and Abyssinian, 365s., c.i.f., spot, 420s., duty paid; Benguella, 370s., c.i.f., and 425s., duty paid. CANDELLILLA.—Spot is 635s. per cwt. CARNAUBA.—Prime yellow on the spot is 1,200s. per cwt.; shipment, 1,180s., c.i.f.; fatty grey is 930s. on the spot; shipment, 880s., c.i.f. MONTAN.—Reibek crude on the spot is 125s. per cwt. OURICURI.—Spot 0.5 per cent. impurities, 715s. per cwt.—SPERMACETI.—Case lots are 1s. 9d. per lb. upwards as to quantity.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

ANISE. — Spot supplies are offered at from 5s. 6d. per lb.; forward, 5s. 4d., c.i.f.

BERGAMOT. — Spot value is about 82s. per lb.

BOIS DE ROSE. — Brazilian on the spot is 31s. and 29s. 9d., c.i.f.

CAMPHOR, WHITE. — Chinese is 2s. 9d. per lb., on the spot.

CANANGA. — Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 20s. per lb. for spot.

CARDAMOM. — Price per lb. is about 265s.

CASSIA. — Original drums are about 14s. per lb. for spot and 11s. 6d., c.i.f.

CELERY.—British distilled is from 130s. per lb.

CHENOPODIUM. — 1-cwt. lots are 65s. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 60s. per lb. English bark oil is offered from 23s. per oz. Ceylon leaf is from 9s. per lb.

CLOVE.—English-distilled bud is about 70s. per lb. for 5-cwt. lots. Madagascar leaf is 10s. per lb., duty paid, and 9s. 3d. c.i.f., for shipment. B.P. is offered at 17s. 6d. per lb.

COD-LIVER.—B.P., is 10s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — Russian-seed oil is 150s. per lb.

CUBE. — English-distilled and imported is offered at from 50s. to 55s. per lb.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported 70s.

DILL.—B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 30s. to 40s. per lb., as to origin.

GARLIC.—English is from 55s. to 60s. per oz.

GINGER. — English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. per lb.

JUNIPER BERRY. — Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s. per lb.

LAVANDIN. — Spot values vary between 15s. 6d. and 16s. 6d. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is about 41s. per lb.

LAVENDER SPIKE. — Spanish is about 11s. 6d. per lb.

LEMONGRASS. — East Indian is 6s. 9d. on the spot and 6s. 6d. per lb., c.i.f.

OTTO OF ROSE.—Anatolian is offered on the spot at 240s. per oz., and Bulgarian, 480s., nominal, ex warehouse.

PATCHOULI. — Penang for shipment is now 52s. 6d. per lb. with spot offers advanced to 60s.

PIMENTO. — English-distilled berry is about 70s. per lb., and imported, 55s.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s.; Siberian (*abietis*), 10s. 6d.

ROSEMARY. — Spanish oil on the spot is about 5s. 9d. per lb., duty paid, for B.P. quality.

RUE.—Spot offers are about 15s. per lb.

SAGE. — Spanish is offered at from 8s. 6d. to 9s. per lb., spot.

SANDALWOOD. — Mysore is 70s. per lb. for 3-case lots.

SASSAFRAS. — Brazilian natural is offering at 5s. per lb. on the spot.

SPEARMINT. — Offers of B.P.C. quality are from 60s. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

WORLD TRADE

Spain to Grow Stramonium. — According to a report from Seville, a German firm is financing the experimental planting in the Seville area, and areas in North Africa, with *Datura stramonium*.

Japan's Trade with China. — The Japanese Government has announced the removal of the ban on exports of a further seventeen items to China. The items include: Coal-tar intermediates, castor oil for medical purposes, non-organic and organic medicines, and photographic equipment.

Pakistan - German Collaboration. — The possibilities of collaboration between Pakistan and West German industrialists in developing synthetic drugs and dyestuffs industries in Pakistan are to be explored shortly. Two Pakistan officials are expected to leave for West Germany about the middle of October.

Swedish Tariff on Peroxide. — The Swedish Government has imposed an "anti-dumping" tariff on imported hydrogen peroxide from September 28. The tariff is being levied on all imported hydrogen peroxide offered in Sweden at prices below those charged in the country of origin. Full details have not yet been announced.

Brazilian Export Regulations. — Copaiba balsam, emetine hydrochloride, dimentholated peppermint oil, perfumes, beeswax and honey are among the items in a new list of Brazilian export products, for which 50 per cent. of the foreign exchange derived from sales abroad may be sold on the free exchange market.

Dutch Insecticide Project. — Work is to be commenced immediately on a plant for the manufacture of aldrin and dieldrin on the site of the Royal Dutch Shell refineries at Pernis, nr. Rotterdam, Holland. The plant is expected to be completed by mid-1955 at a cost of more than £1 million. Production will be large enough to supply other companies with aldrin and dieldrin—hitherto only produced on a commercial scale in the United States.

TRADE MARKS

From the "Trade Marks Journal," September 23
For agricultural and horticultural chemicals (1)
PERECOT, 719,069, by Plant Protection, Ltd., Yalding.

For vulcanisation accelerators being chemical products for use in industry (1)
HUBRAC, 720,322, by Hubron Rubber Chemicals, Ltd., Failsforth.

For perfumes (3)
BINT EL FUN, 711,446, by Abdul Husain Abdul Nabee, Aden.

For essential oils (3)
AVONIA, 717,737, by Chlorophyll & Derivatives, London, E.C.4.

For all goods (3)
CHARMIS, 718,054, by Colgate-Palmolive-Pet Co., Jersey City.
CELLUMIN, 719,342, by Genatosan, Ltd., Loughborough.
ABLA BINT MALIK, 719,604, by May & Baker, Ltd., Dagenham.

For non-medicated toilet preparations (3)
LE MUGUET DU BONHEUR, 713,224, by Parfumerie Caron, Paris.

For detergents (3)
DEEGROL, 719,777, by Alcock (Peroxide), Ltd., Luton.

PRINT AND PUBLICITY

Show Material

HALEX, LTD., Highams Park, London, E.4: Display stand specially designed to show a selection of the entire Halex range.

SOUTHON LABORATORIES, LTD., 84 Upper Richmond Road, London, S.W.15: Display material and shelf-cards for Esobactulin capsules are available from the company.

Price Lists

CALMIC, LTD., Crewe Hall, Crewe: Price list, pp. 4.

MOORE MEDICINAL PRODUCTS, LTD., 1 Queen's Terrace, Aberdeen: Price list of pharmaceutical specialities, September 1953, pp. 6.

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Catalogue and Price List of Roussel Ethical Specialities," pp. 42.

WHIFFEN & SONS, LTD., North-west House, Marylebone Road, London, N.W.1: "Whiffen's Fine Chemicals," pp. 41, September 1953.

Periodicals

W. EDWARDS & CO. (LONDON), LTD., Worsley Bridge Road, Lower Sydenham, London, S.E.26: "Vacuum," Vol. 2, No. 3, pp. 112.

POWERS-SAMAS ACCOUNTING MACHINES (SALES), LTD., Powers-Samas House, Holborn Bars, London, E.C.1: "The Powers-Samas Magazine," Vol. 19, No. 8, August 1953, Pp. 16 on punched card accounting.

Advertising Campaigns

DELAVALLE (G.B.), LTD., 38 Orsman Road, Kingsland Road, London, N.1: ½-page advertisement in the *Daily Mirror*, December 10, for Blue Orchid "perfume luxuries." Other special Christmas advertising will appear in other national daily and Sunday newspapers and in the national weekly and monthly magazine Press.

WILLIAM FREEMAN & CO., LTD., Suba-Seal Works, Peel Street, Barnsley, Yorks: Suba-Seal hot-water bottles will be advertised throughout October, November and December in hundreds of newspapers.

HALEX, LTD., Highams Park, London, E.4: Christmas advertising of the Halex brushes will appear in all these big-circulation magazines: *Illustrated*, *Picture Post*, *John Bull*, *Picturegoer*, *Woman*, and *Woman's Own*.

MAX FACTOR HOLLYWOOD & LONDON (SALES), LTD., 16 Old Bond Street, London, W.1: Nine separate powerful advertising campaigns during the second half of 1953 for Creme-Puff, Pan-Cake, Pan-Stik, Satin-Flow, Max-Factor lipstick, face powder, invisible make-up foundation, talc, and gift sets.

PHARMAX, LTD., Old Hill, Chislehurst, Kent: Ralgex embrocation is now advertised in a wide range of provincial newspapers.

POTTER & CLARKE, LTD., Barking, Essex: Regular national-scale advertising for Potter's Asthma remedy.

REMINGTON RAND, LTD., Shaver Division, 1 New Oxford Street, London, W.C.1: Non-stop national advertising for Remington 60 shaver in big-circulation newspapers and magazines.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: "Therapeutic Indications for some B.D.H. Medical Products" (4-p. card); "Mepilan" (blotter); "Dchydrocholin, B.D.H." "Anahem in Pernicious Anæmia" (4-p. leaflets).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Oblivon" (card).

CIBA LABORATORIES, LTD., Horsham, Sussex: "Protandren Linquets" (6-p. folder); "Bardosol Antiseptic Lozenges" (4-p. leaflet); "Pyribenzamine" (8-p. booklet); "Antistin and Antistin-Privine" (12-p. booklet).

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "Anaesthetics" (16-p. booklet); "Roche Research" (Blotter).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, October 5

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, assembly house, Theatre Street, Norwich, at 7.15 for 7.45 p.m. Members' night and brains trust.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND, 73 University Street, Belfast, at 7.45 p.m. Annual meeting.

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Belle Vue Hotel, Cliftonville, at 8 p.m. Mr. B. J. Thomas (Allen & Hanburys, Ltd.) on "Aseptic Technique and Sterilisation."

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Green Man Hotel, Hall Lane, Edgware, at 8 p.m. Mr. G. R. A. Short, F.L.S., Ph.C., on "Some Impressions of Jamaica."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, The Whim Tea Lounge, 258 High Street, Beckenham, at 8 p.m. Mr. H. G. Moss on "14,000 Miles with the British Retail Team Through the U.S.A."

Tuesday, October 6

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Imperial Hotel, Birmingham, at 8 p.m. Film show: "Construction of the Claerwen Dam," and "Birmingham Water Supply."

MANCHESTER BRANCH, GUILD OF PUBLIC PHARMACISTS, lecture theatre, St. Mary's Hospital, Whitworth Street, Manchester, at 7 p.m. Business meeting and reports on conference visits.

SOUTH-EAST LONDON BRANCH, NATIONAL PHARMACEUTICAL UNION, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. Allen Aldington (a member of the N.P.U. Executive) on "Retail Pharmacy — Today's Problems."

Wednesday, October 7

WEMBLEY AND WEST MIDDLESEX CHEMISTS' ASSOCIATIONS, Oldfield Hotel, Greenford Road, Greenford, Middlesex, at 6.30 for 7 p.m. Annual dinner and dance.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Griffin Hotel, Kingston, at 7 p.m. Supper dance.

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, lecture theatre, Morriston Hospital, at 7.45 p.m. Dr. Harold Davis (chief pharmacist, Ministry of Health) on "The Drug Bill."

Thursday, October 8

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Board Room, Guildhall, Small Street, Bristol, 1, at 7.15 p.m. Mr. W. McKeown (surveyor, H.M. Customs and Excise) on "The Functions of my Department with Particular Reference to the Aspects Relating to Pharmacy."

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Pavement Café, Grove Road, Sutton, at 7.45 p.m. Mr. Pierre Bongard on "The Art of Perfumery."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropolitan Hotel, Leeds, at 7.30 p.m. Mr. H. S. Grainger on "International Pharmacy."

Friday, October 9

HULL CHEMISTS' ASSOCIATION AND BRANCH, Imperial Hotel, Hull, at 8 p.m. Mr. A. F. Park (Kodak, Ltd.) on "Our Colourful Country-side."

Advance Information

LONDON NURSING EXHIBITION is being held in London, October 12-16.

JUNIOR BRANCH, MANCHESTER AND SALEFORD BRANCH, PHARMACEUTICAL SOCIETY, are organising a ramble in Edale on October 11.

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, The Bristol Chamber of Commerce, Guildhall, Small Street, Bristol, invites members who have not yet received their copy of the winter session programme to notify the secretary, when a copy will be supplied. There have been a number of complaints about non-receipt of copies.

IT is clearly evident from the latest marketing surveys that the public is increasingly concerned with value for money. There is, in addition, every indication that it is more conscious than ever before of the need for domestic and personal hygiene. Combine these two factors and you realise why more and more people are turning to Ibcol. *For Ibcol is the all-purpose disinfectant-antiseptic that gives the widest protection at the lowest price.*

Through extensive national advertising, millions of housewives have become aware that this is the germicide used in an ever-increasing number of hospitals and maternity homes. No wonder, then, that housewives place such complete trust in this most comprehensive of disinfectant-antiseptics; no wonder progressive chemists throughout the country find Ibcol so essential and so rewarding an item to stock and display.

Aspirin toleration

The answer

The answer to the acidity and low solubility of aspirin, and to those gastric and systemic disturbances which sometimes hamper aspirin therapy, is *stable* calcium aspirin taken in solution. This 'Disprin' tablets provide.

Disprin not only overcomes the two well-known defects of ordinary aspirin; but also that of calcium aspirin as generally prepared, which is a liability to chemical breakdown during manufacture and storage. In the form of Disprin, dosage with calcium aspirin becomes both predictable and palatable.

As Disprin, therefore, aspirin can now be administered in bland, complete solution. Extensive clinical use in leading hospitals shows that, except in cases of extreme hypersensitivity, Disprin is well tolerated even in large amounts given over prolonged periods.

DISPRIN

REGD

Provides stable, soluble, palatable calcium aspirin

AVAILABLE SHORTLY

MEDICAL EVANS SUPPLIES

The original

NOVO LENTE INSULINS

Following considerable research work in the Novo Laboratories in Denmark three new insulin modifications have been originated.

ORIGINAL NAME	ONSET OF ACTION	APPROXIMATE DURATION OF ACTION	STRENGTH	IDENTIFICATION COLOURS
INSULIN NOVO SEMILENTE	Fairly rapid	12-16 hours	40 i.u. per ml.	Vermilion/Blue
INSULIN NOVO LENTE	moderate	24 hours	{ 40 i.u. per ml. 80 i.u. per ml.	Mauve/Blue Mauve/Green
INSULIN NOVO ULTRALENTE	delayed	24-36 hours	40 i.u. per ml.	Brilliant Yellow/ Blue

Vials of 10 ml.

Local reaction will not occur with these preparations as they contain no added protein materials and have been purified by repeated recrystallisation. They are all characterised by prolonged action. Extensive clinical trials in Denmark and in Great Britain have shown that with these new insulins it is possible to adjust not only mild but also the great majority of severe cases of diabetes

on one daily injection. Insulin Novo Lente will be used most frequently, as one daily injection of it will stabilize approximately 90% of all insulin-consuming diabetics. In other cases Semilente or Ultralente can be mixed with Lente, or used alone—Semilente where the onset of action of Lente is too delayed, Ultralente where its duration of action is not sufficiently prolonged.

Further information on request.

Novo Lente Insulins are manufactured in Denmark by : **NOVO TERAPEUTISK LABORATORIUM A/S**

and marketed in Great Britain by the sole distributors

EVANS MEDICAL SUPPLIES LTD

Head Office and Workshops: **SPEKE • LIVERPOOL 19**

London Office and Workshops: **RUISLIP • MIDDLESEX**

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EVANS MEDICAL SUPPLIES (NORTHERN) LTD • Tower House, Tower Street, Newcastle upon Tyne 1

EVANS MEDICAL (WALES) LTD • Mariner Street, Swansea

GLASGOW DISTRIBUTORS: The New Apothecaries Co. Ltd., 59 Glassford Street, Glasgow C.1

Overseas Establishments: BERNE • BOMBAY • CALCUTTA • DUBLIN • JOHANNESBURG • KARACHI • MADRAS • MELBOURNE • RIO DE JANEIRO • SAO PAULO • SINGAPORE • SYDNEY

These outstanding features make

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NIGHT DRIVING SPECTACLES

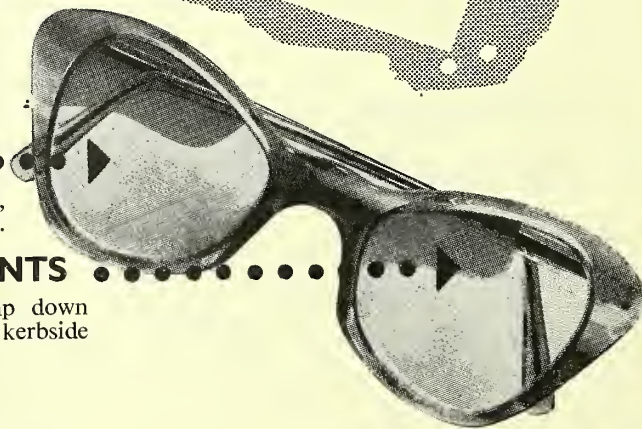
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YELLOW, CLARIFYING FILTER LENSES

Improve vision at dusk and in mist or haze, making motoring safer, speedier and far less strain.

GOLD TRANSPARENT CRESCENTS

cut out glare of approaching headlights, damp down reflected light from following traffic, leaving kerbside vision unimpaired.



..... CAT'S EYES SUPER

spectacles with yellow filter, safety lenses and gold mirror top RETAIL PRICE 25/-

..... CAT'S EYES

spectacles with clarifying safety filter lenses RETAIL PRICE 17/6

..... CAT'S EYES SUPER CLIP-OVER

with yellow filter, safety lenses and gold mirror top RETAIL PRICE 20/6

ORDER FROM YOUR
USUAL WHOLESALER

All Wholesale enquiries to:

ALFRED FRANKS & BARTLETT CO. LTD.

226/8 Gray's Inn Road, London, W.C.1. Telephone: TERminus 9865/8

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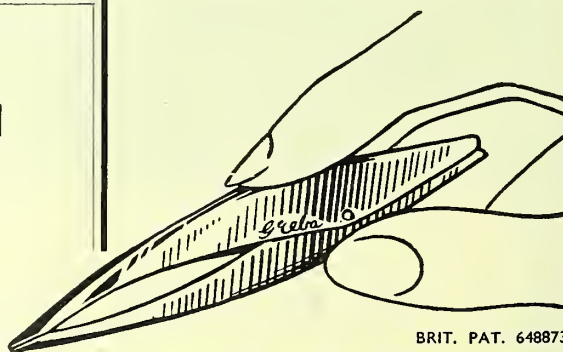
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**IT HOLDS THE MINUTEST ARTICLE
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BRIT. PAT. 648873

Women everywhere are welcoming this new improved patented tweezer, because it really does grip without effort or tension. The "GREBA" is British made from stainless steel in a simple design both pleasing and practicable. Order from your usual Wholesaler.

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**ARCFIELD OPTICAL MANUFACTURING
COMPANY, LIMITED.**

(Light Engineering Section)

53 Tottenham Court Rd., London, W.1

3 months' **FREE** supply of Modess for your shop!

4 SEPARATE CHANCES TO WIN IN *Johnson & Johnson's* Modess selling competition

TAKE this great opportunity to win **FREE** a 3 months' supply of Modess, and boost your sales of Modess into the bargain.

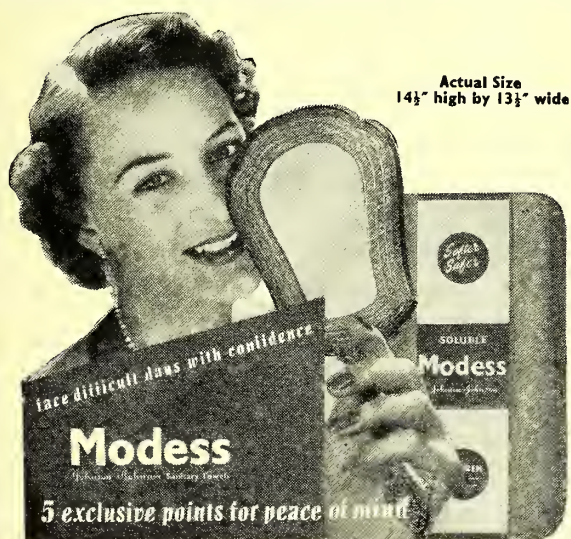
Each month during the rest of this year the free 3 months' supply will be awarded to the shop whose sales of Modess exceeds the average for its type and size of outlet by the greatest percentage margin.

Your Modess counter assistant will be keen to help you win, because if you do, her prize will be a glamorous evening gown, specially made for her by a famous London fashion designer and a two days' luxury holiday in London, or if several assistants sell Modess in the winning shop, a generous cash prize will be divided between them.

As you know, Modess towels are far superior to any other because of their five special advantages. They sell easily and quickly, but to help you give sales that extra boost needed to win, we have designed two eye-taking full colour show-cards (below). The larger one is particularly attractive because it incorporates a beautifully decorated hand mirror & an actual packet of Modess. Stand them both in a really prominent position on your counter and watch sales bound up and up, putting you in the running for a prize.

Full details of the competition and the wonderful prizes in a broadsheet which has been sent to all retailers and wholesalers. Make sure that everyone in your shop sees it and make sure you have plenty of Modess in stock.

Johnson & Johnson (GT. BRITAIN) LTD.
Personal Products Division, WREXHAM & LONDON





COX

.... almost another way of saying

TABLETS

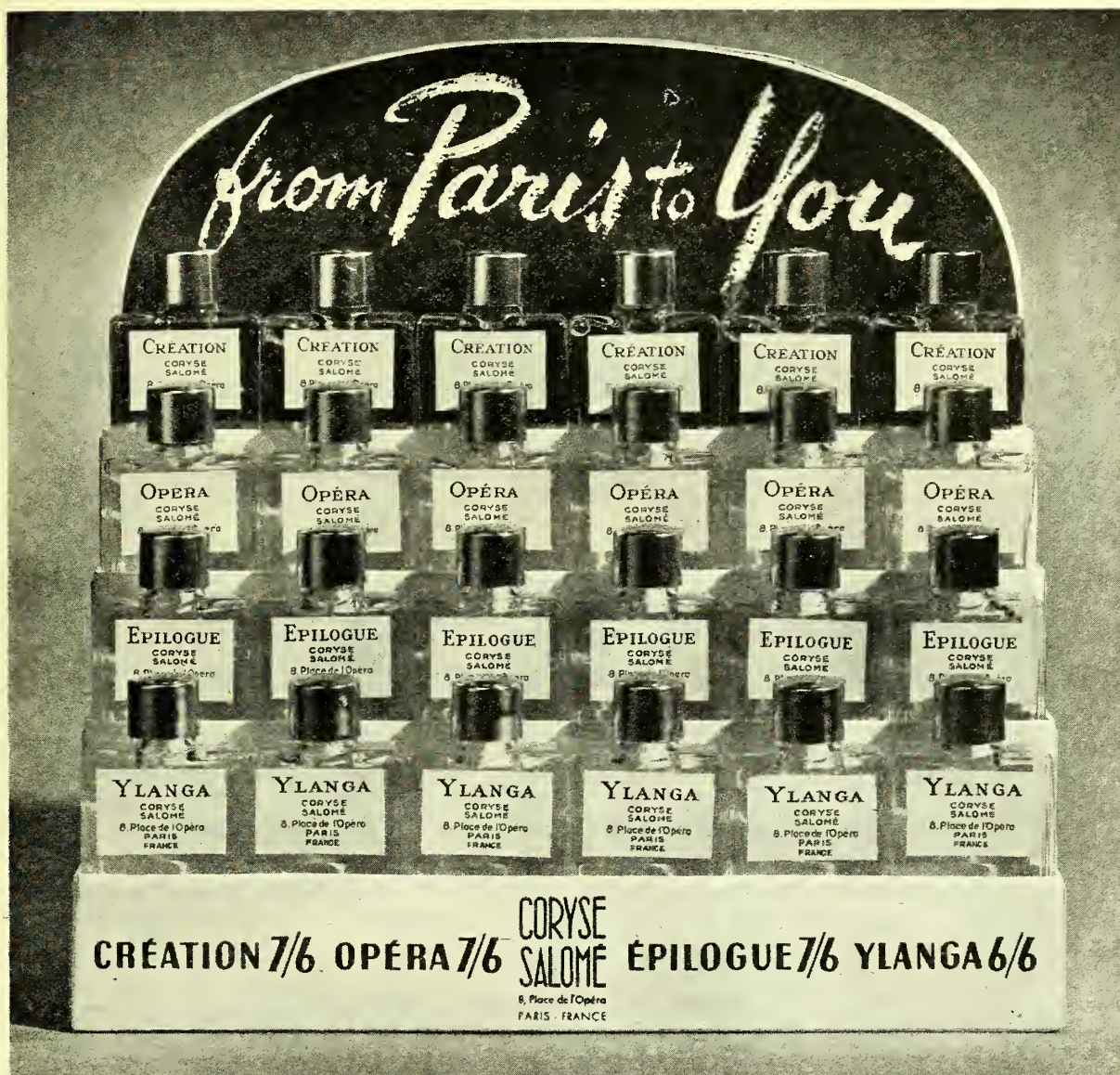
ARTHUR H. COX & CO. LTD., BRIGHTON 7, SUSSEX
Telegrams. COX, BRIGHTON. 'Phone BRIGHTON 23084-5-6

CHLORAMPHENICOL

The legal actions between Parke, Davis & Company and Allen & Hanburys Limited on the matter of chloramphenicol patents, have been withdrawn by mutual agreement.

ALLEN & HANBURYS LIMITED

PARKE, DAVIS & COMPANY



Actual size 6½" high; base 6½" wide; 2½" deep

For the first time in Britain

CORYSE SALOMÉ Paris Perfumes de grande classe

★ **Gay, fast-selling dispenser, proved in over 100 Coryse Salomé beauty requisite shops in France.**

★ **Now obtainable from your wholesaler.**

JUST IN TIME for the Christmas trade—this novel, attractive dispenser of 24 handbag size bottles of new, *quality* French perfumes selling at competitive prices. In France, where Coryse Salomé is one of the biggest and most respected firms in the perfume and cosmetic trade, this dispenser has been tested for more than five years and found to be their fastest selling counter unit.

It takes up so little counter space—2½" x 6½"—yet represents a turnover of £8.14.0 not counting replacements, which are readily available.

Ask to see this scintillating little showpiece with the big business potential at your wholesalers. 8 free tester phials supplied with each dispenser.

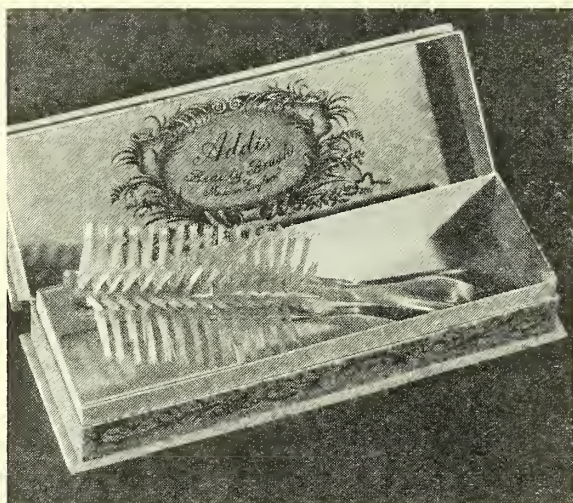
This dispenser is available solely through the wholesalers. Full information about the Coryse Salomé Beauty range obtainable from:

CORISALES LTD. 21/22 Poland Street London W.1

New *Addis* hairbrush range

**HEAVY NATIONAL
ADVERTISING
WILL BOOST SALES**

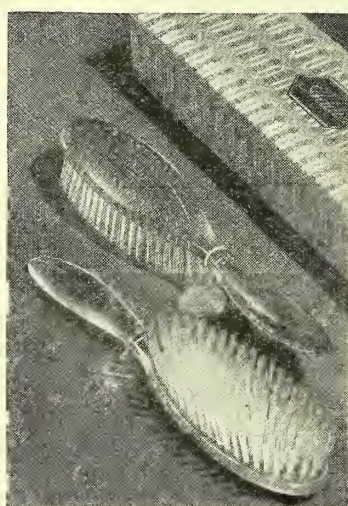
THE ADDIS RANGE displayed on these and the next two pages is, we think, the most attractive we have ever put out. There are new lines, and new packs, and we're giving the range the heaviest national pre-Christmas advertising we have ever done.



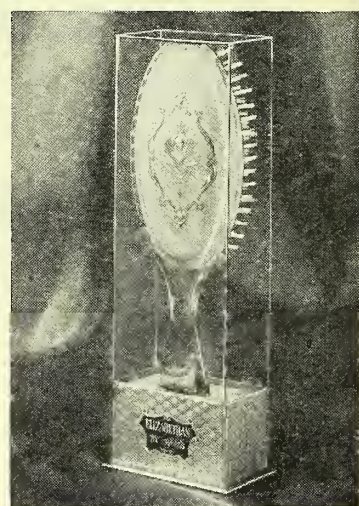
ADDIS BEAUTY BRUSH (12/6) (*Left and above*) will this year be available in this new presentation casket pack. Printed in 7 colours, buyers agree it is the most attractive hairbrush pack ever marketed. It will be heavily advertised in time for Christmas sales. Inside the box the brush is protected with an acetate cover.



ADDIS SHOE HORN-CLOTHESBRUSH (4/6) is another brand-new line. (An additional feature is the specially designed surface for removing mud splashes.) Available in blue, green and pink, it matches other Addis Toilet products.

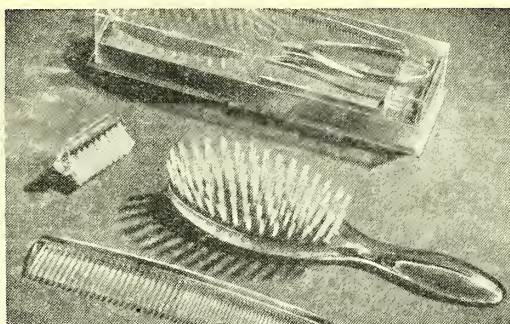
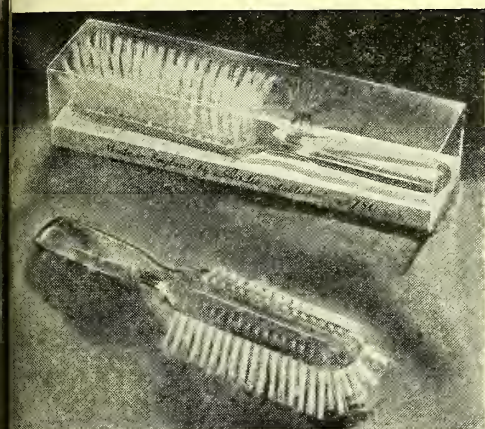


ADDIS PATRICIAN is a slim, elegant brush of traditional shape. Handles of pink, blue or green, filled with finest natural bristle (33/6) or with Flextron tufts (14/3).



ADDIS ELIZABETHAN (11/6) is new. Its tufts are set in a plastic cushion with a translucent back handsomely decorated with a silver Elizabethan motif. Green, blue and pink.

will be Christmas winner



ADDIS 3048 MATCHING SERIES (7/6 if sold complete) is another new series consisting of 3048 Hairbrush in a gold tray complete with 7" Comb and a small Nailbrush. Transparent pink, blue and green.

ADDIS 3004 LADIES' HAIRBRUSH (5/6) has proved a "best seller" for many years. A quality brush at a modest price. Available in blue, green and pink, with an acetate cover and brush cleaner.

**PUT THIS COLOURFUL
SHOW ON YOUR COUNTER**



FREE TO RETAILERS, this gold "ladder" display presents 3 Addis Beauty Brushes attractively. Made of stout card, it occupies only a very small amount of space. Equally useful either in the window or on the counter.

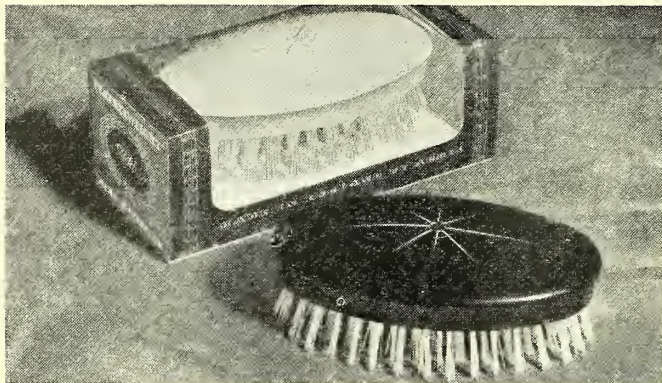


PUT THIS COLOURFUL SHOW ON YOUR COUNTER. Addis Hairbrushes make a colourful, eye-catching show when massed together on the new display stand. With a hairbrush order of £10 or more you get one of these stands free. Made of wood and plastic-covered wire, it is attractively painted in pastel blue and pink.

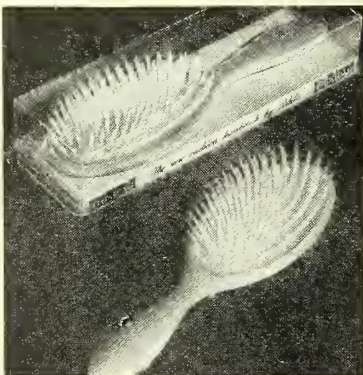
Turn over for 2 more pages of attractive brushes



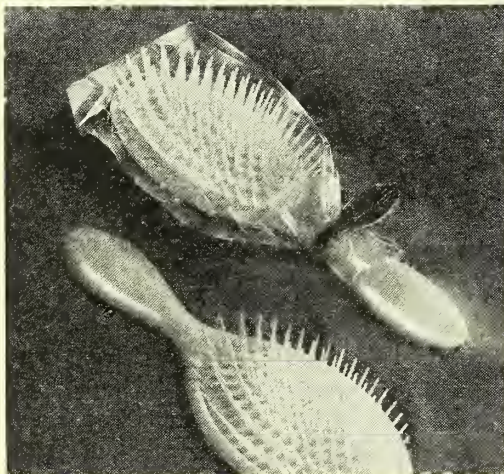
Put the *Addis* range on display



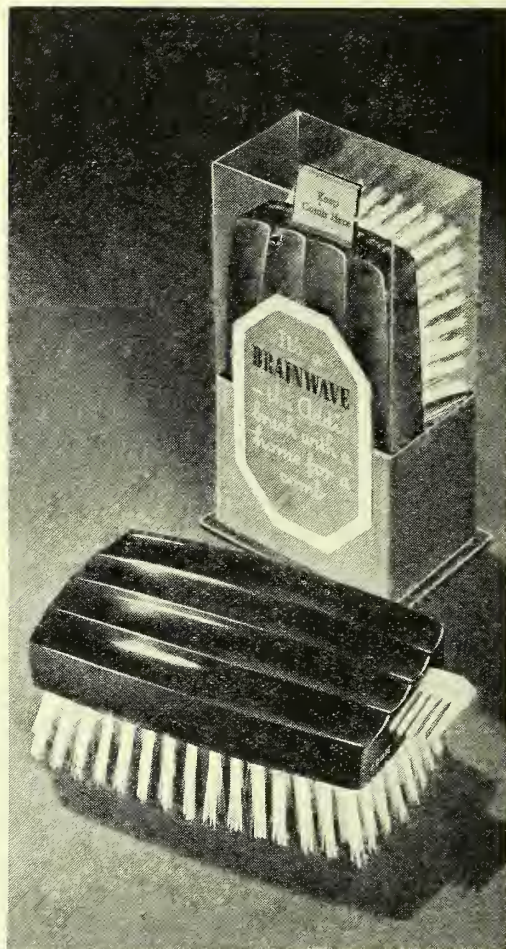
ADDIS FEATHERWEIGHT MEN'S HAIRBRUSH (5/3) is a full-size brush of light construction. Plastic backs in 3 colours, ebony black, ivory white and wood brown. Nylon filled. Reasonably priced, this makes an excellent Christmas gift.



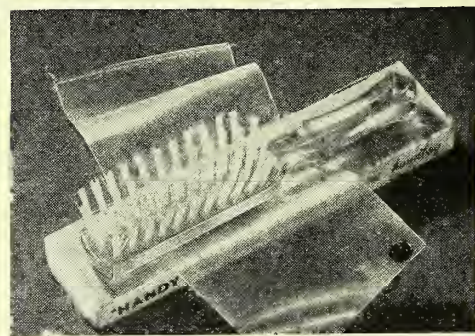
ADDIS FLEXIPAD HAIRBRUSH (6/11) is a new brush with nylon tufts set in a plastic cushion which gives the user maximum stiffness plus the greatest possible flexibility. In pink, blue and green.



ADDIS FLEXIQUILL HAIRBRUSH (3/6) is another attractive new line. The Flexiquill is a combing brush which has a plastic pad and quills moulded in white polythene. The handle is in a pleasing oval shape in a choice of three colours—pink, blue and green.

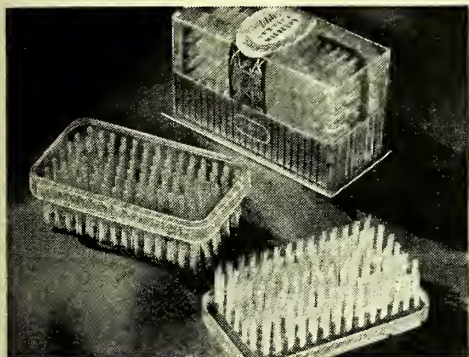


ADDIS BRAINWAVE (11/6) is the brush with a home for a comb. Ebony and tortoiseshell colour plastic backs, nylon filled, in individual gold pack with protective acetate cover. Matching Combs (6d).

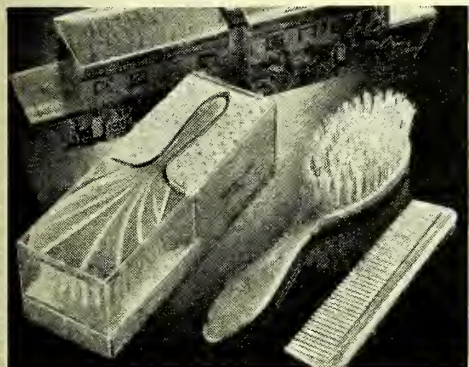


ADDIS "HANDY" HANDBAG BRUSH (3/3) is an ever-popular line especially suitable for display during the Xmas gift season. Its attractive crystal-cut handle is supplied in transparent blue, pink and green. The tufts are in Nylon.

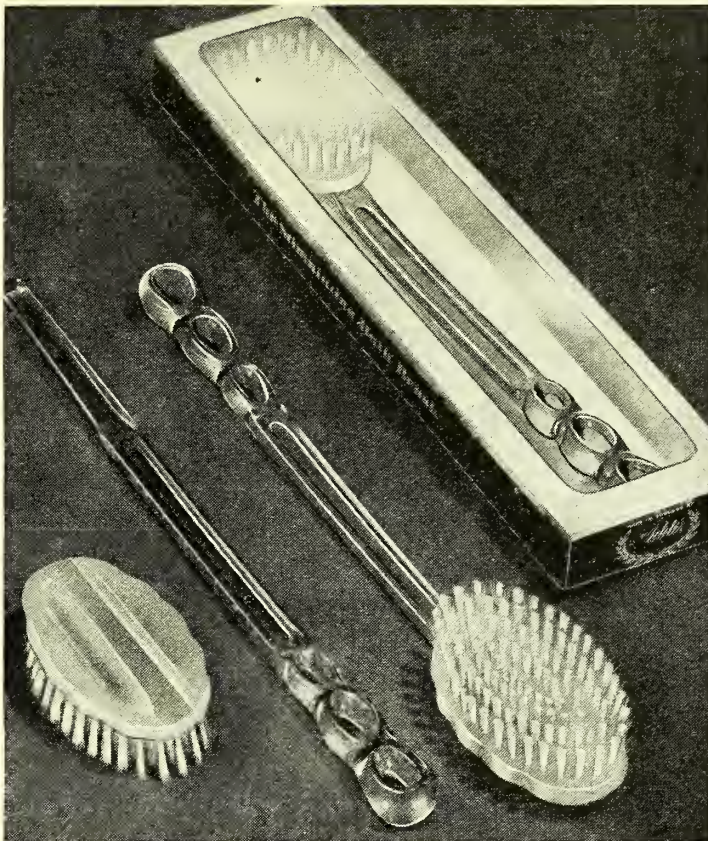
for quick Christmas sales



ADDIS SERVICE MILITARY HAIRBRUSH (20/- per pair) now has a more attractive back and also a new pack with a label band and acetate cover. A feature is the way the bristles fit together, making the brushes self-cleaning.



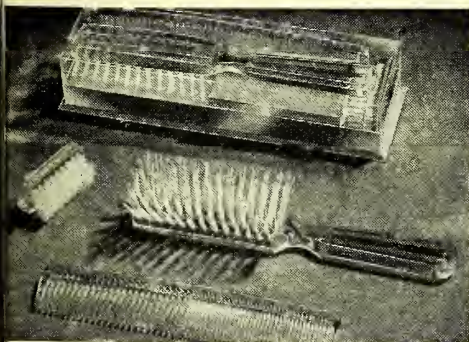
ADDIS 227 CHILD'S BRUSH (3/9) is for ages two to seven and has tufts of medium nylon. Available in pastel pink, blue and white, and packed in a Noah's Ark Box that has a great appeal for children.



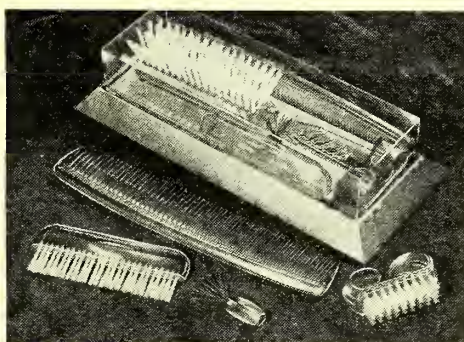
ADDIS STIMULATING BATH BRUSH (12/6) has soft nylon tufts for gentle brushing and shorter plastic "stimulators" for massage. The curved handle in pink, blue or green has a non-slip grip and is detachable from the head. In a bath-shaped pack, this new line is already selling fast.

If you haven't sent your Xmas order yet—place it

NOW!



ADDIS 3044 MATCHING SERIES (6/6 if sold complete) is new. It consists of a 3044 Ladies' Hairbrush, a 7" Comb, and a small Nailbrush in gold tray with acetate cover. In transparent pink, blue or green.



ADDIS 3004 MATCHING SERIES (11/- if sold complete) consists of 3004 Ladies' Brush, free Brush Cleaner, Little Grippy Nailbrush, a Cloth Brush, and an 8" Comb, all in matching colours. Last year this was easily Britain's best-selling Matching Set.

**Remember
that the Addis
Hairbrush
Bonus Scheme
finishes on
October 31st**

ADDIS LIMITED,
BRUSHWORKS, HERTFORD

COUNTESS IS HERE!

THE AMAZING NEW HAIR CONDITIONING CREAM!



it's magic!

IT SELLS LIKE MAGIC!

SPECIAL INTRODUCTORY DISPLAY BONUS!

There has never been anything like Countess before! It's a hair conditioning cream that brings beauty and lustre to any and every type of hair.

Ask the ladies in your family, and among your assistants, to try Countess. They'll agree—there's never been a hair conditioner as wonderful as Countess!

HOT NEWS OF COUNTESS SALES SUCCESS!

As part of a detailed promotion plan, Countess has been test marketed in four towns in different parts of Britain. The results have been startling! Beyond all expectations!

A national marketing organisation reports that in all its wide experience it has never known a new product of this type to have such an overwhelming success! That's a pointer to the profits in store for you! And remember—your display bonus gives you **a profit of nearly 1s. 2d. a tube.**



COUNTRESS
HAIR
CONDITIONING
CREAM

An entirely new and wonderful kind of beauty treatment for the hair
it's magic!

COUNTRESS
HAIR
CONDITIONING
CREAM

AN ENTIRELY NEW AND WONDERFUL KIND OF BEAUTY TREATMENT FOR THE HAIR

Countess gives the hair strength and silkiness. It makes frizzy hair sleek yet gives body to thin hair.

It makes curls and waves stay in longer. It controls "wisps".

It counteracts damage done by perming, dyeing or bleaching.

it's magic!

COUNTRESS
HAIR
CONDITIONING
CREAM

An entirely new and wonderful kind of beauty treatment for the hair
it's magic!

SPECIAL DISPLAY BONUS OFFER!

Open until 30th October

Until 30th October you can receive a special display bonus of three dozen tubes for the price of two! Just look at these profits!

	£	s.	d.
3 dozen tubes at £1	3	0	0
Plus purchase tax	2	5	0
	5	5	0
Less price of 1 dozen	1	0	0
	4	5	0
You sell at 3s. 6d. a tube	6	6	0
Your profit	2	1	0

NEARLY 1½ A TUBE

And what a wonderful display !

The lovely Countess girl appears on every tube, every carton, every outer and display card.

See the striking, memorable effect of this glamorous repetition. It can't be missed!

We'll be happy to let you have any additional display material. Just write or phone.

GREAT NATIONAL ADVERTISING CAMPAIGN!

This lovely Countess girl appears in big spaces in a large-scale national advertising campaign commencing on 12th October in women's magazines and at your local cinema. Your customers will see her, will

read about Countess and its magical effect on hair of every type.

Then, when they see the Countess girl in your window, on your counter, Countess will sell—like magic. Order right away from:

COUNTY PERFUMERY CO. LTD., COUNTY BUILDING, HONEYPOT LANE, STANMORE, MIDDLESEX. Tel: Wordsworth 4321.



YOU WILL LIKE THESE NEW



BLUE printed cartons for cotton wool; GREEN for white lint; RED for boric lint; MAROON for gauze.

NOTE THIS RECENT COMMENT from one of our customers :

" . . . We are particularly attracted to your carton pack, and should be grateful if you would make a note to supply carton pack on all our future orders."

Certor

CARTONED DRESSINGS

because

- ★ They are distinctive, modern packs.
- ★ They always look well, and in their tissue wrapping they keep well, too.
- ★ They are available at very little extra cost.

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4

Something they can trust

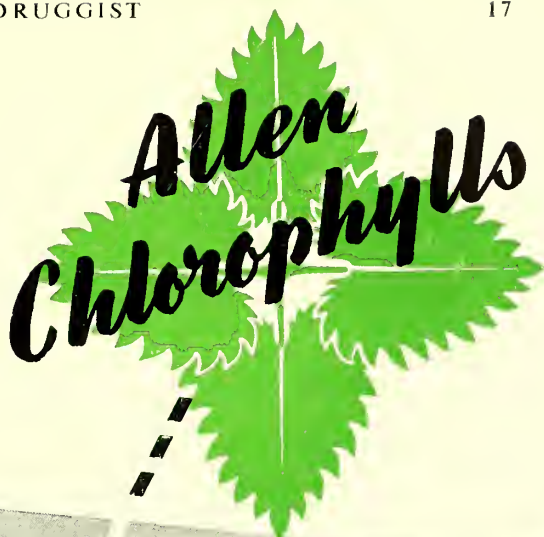
The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction. Such is the popularity of

CUTICURA SOAP CUTICURA OINTMENT CUTICURA TALCUM POWDER CUTICURA SHAVING STICK

There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED **CHLOROPHYLL**

TO WORLD MARKETS



Loading Allen Chlorophylls at
London Airport

HIGHLY CONCENTRATED **WATER-SOLUBLE CHLOROPHYLLS • MEDICINAL CHLOROPHYLLS** **OIL-SOLUBLE CHLOROPHYLLS**

Backed by over 100 years' experience in the production of finest drug extracts—which includes 30 years of chlorophyll manufacture—we offer a wide range of reliable grades produced under

strict scientific control. We place our research facilities and long experience freely at users' disposal and welcome enquiries as to the best grades of chlorophyll for any particular application.

For TABLETS • DENTIFRICES • MOUTH WASHES • DEODORANTS • BREATH SWEETENERS
DRESSINGS • SOAP COLOURING • FOOD & CONFECTIONERY COLOURING, ETC., ETC.

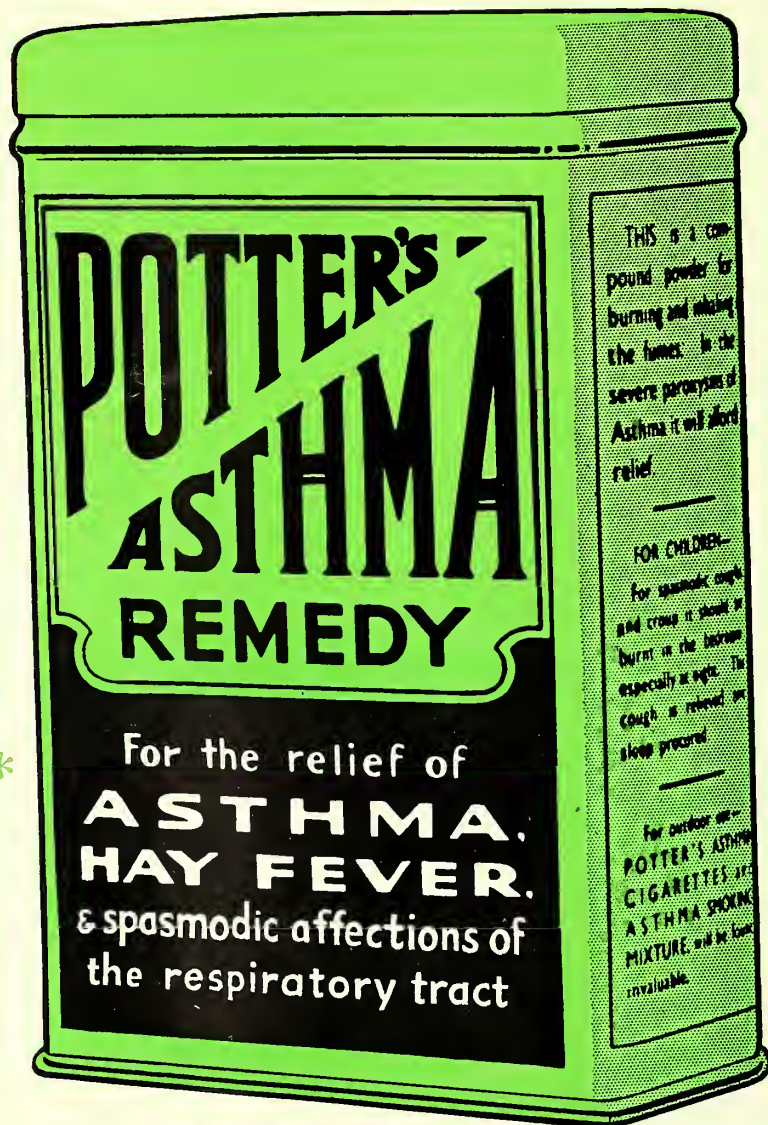
THE ALLEN CHLOROPHYLL COMPANY LTD.

WHARF ROAD, LONDON, N.1 Telephone: CLERkenwell 1000
Telegrams: Alclor, Nordo, London Cables: Alclor, London

So
well
known*



1 doz. tins of
Potter's Asthma
Remedy are displayed in
this coloured container
Retail 2/11 a tin
Trade 22/- a doz.
(Plus Purchase Tax,
5/6 a doz.)



and so - well
sold!

The renowned method of relieving attacks of Asthma, Hay Fever, Whooping Cough or Bronchitis. Every tin gives simple directions and contains special Dispenser.

Orders through Wholesalers only, please!

* Regular National-scale
Advertising continues to
support this Potter's line

**POTTER & CLARKE
LIMITED**

BARKING · ESSEX

Telephone: RIPpleway 3041

PENICILLIN PREPARATIONS

LOZENGES · TABLETS · OINTMENTS · Etc.

Aids to Dispensing Outfits of Creams and Drops

MANUFACTURED BY



DISTRIBUTED BY

MOORE MEDICINAL PRODUCTS LTD

1 QUEENS TERRACE
ABERDEEN. Tel: 27233

64 GLOUCESTER PLACE
LONDON, W.1. Tel: WELbeck 5718/9

Detailed Price List on Request.

'RADIO-MALT'

for radiant health

The luscious toffee flavour makes Radio-Malt a favourite with the children—and parents are delighted with an established vitamin preparation, such as Radio-Malt, which the children take so readily. They know it helps to safeguard children against winter ills.

This is the time to remind your customers about Radio-Malt. A gay, coloured cut-out (12" x 19") will be available shortly. Please ask for one.

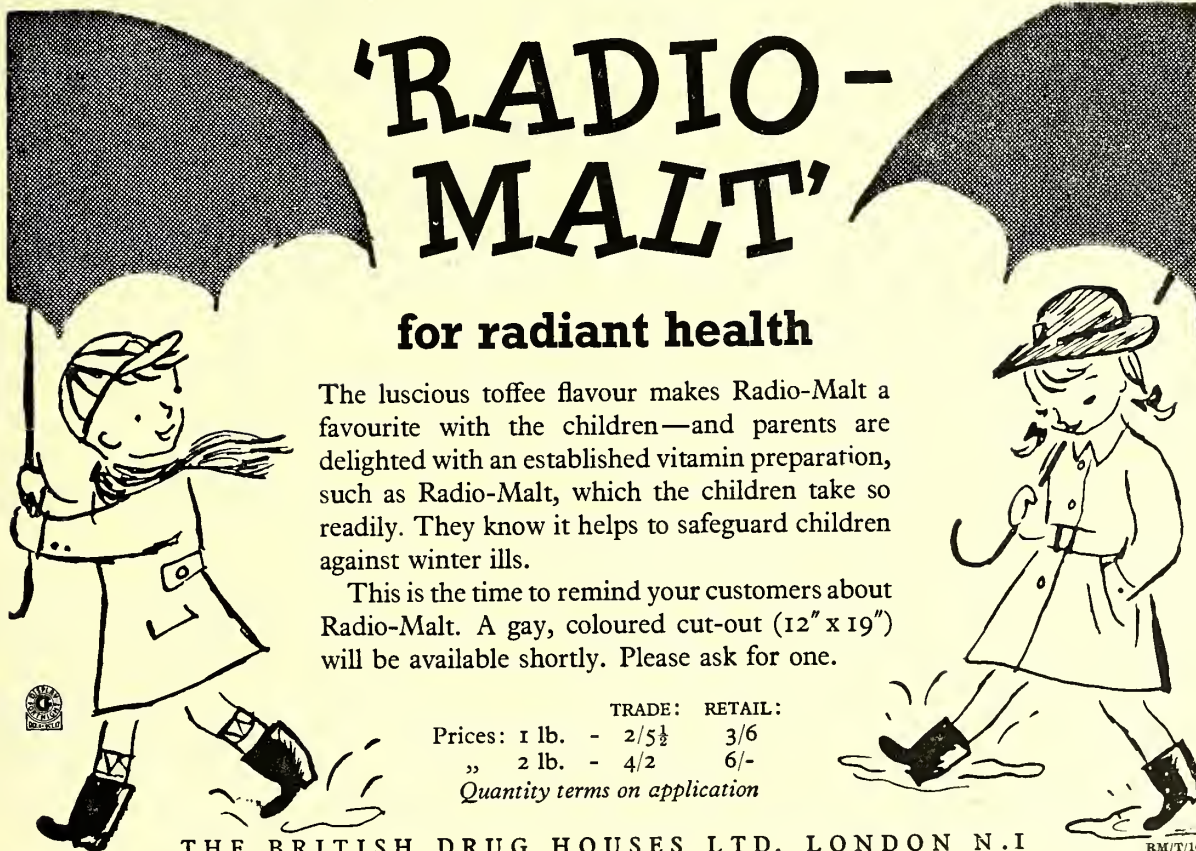
	TRADE:	RETAIL:
Prices: 1 lb. -	2/5½	3/6
„ 2 lb. -	4/2	6/-

Quantity terms on application

THE BRITISH DRUG HOUSES LTD. LONDON N.1

RM/T/10

D



The Birmingham Mail

TUESDAY, MAY 26, 1953

27,198

AGAIN AT AD

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

Millions

Daily Mail

FOR QUEEN AND COMMONWEALTH

MONDAY, JULY 20, 1953

SEROCALCIN

NG CITY PRICES

ekay

Evening Standard

FRIDAY, JULY 17, 1953

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

Other and BOY

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

Treatments 3/6d. and 9/10d.

The Evening News

LONDON, MONDAY, JULY 20, 1953

THREE-HALFPENCE

NOW IS THE TIME to avoid those Winter Colds

By taking Serocalcin tablets now you can enjoy a winter free of colds.



Take that Summer feeling into Winter with SEROCALCIN TABLETS

Treatments 3/6d. and 9/10d.

Says 'This Affair N PLANNED'

VAST £14,500,000

Both Switched

THE OBSERVER

Sunday, June 14, 1953

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

THE SUNDAY TIMES

The Daily Telegraph

Printed in LONDON and MANCHESTER

4 A.M.

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

MANCHESTER GUARDIAN

FRIDAY JULY 17 1953

FOREIGN AFFAIRS RETIREMENT

THE

TIMES

THE COLD WAR threatens your business

SEROCALCIN TABLETS

will defend it

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

Be wise - Immunise with Serocalcin tablets early this Autumn and enjoy a winter free of colds.

Treatments 3/6d & 9/10d

The Yorkshire Post

THE SCOTSMAN

EDINBURGH, WEDNESDAY

NATIONAL PRIVATE PET SALE

RINGS

COME view our

which we have

score of equine

for the new

Remember the winter you did not have a cold! - You took SEROCALCIN TABLETS

Be wise - Immunise

will be told!

becomes a Best Seller

Serocalcin has already made a big name for itself as a preparation specially suited to fight the common cold. Now an intensive publicity campaign in the National Press is in operation again to create bigger turnover and profits to all Serocalcin stockists. The "cold" Season is starting — the public will be asking you about Serocalcin, so be sure you are fully stocked to meet demands.

PRICE TO PUBLIC NOW 3/9d. and 9/10d.

SEROCALCIN
T A B L E T S



KENWOOD LABORATORIES LIMITED



ANNOUNCE

NIVEA

SHAVING CREAM

**price reduced
to 2/3**

OPERATIVE FROM OCT. 1st, 1953

Trade Price 15/5 per doz.

AVAILABLE ON BONUS TERMS

NIVEA SHAVING CREAM is now a firmly established favourite. This super-quality product has gained tremendous popularity . . . largely by recommendation. We are pleased to announce that it is now possible to reduce the price from 2/4½ to 2/3.



HERTS PHARMACEUTICALS LIMITED • WELWYN GARDEN CITY • HERTS.

GRAND AUTUMN BONUS OFFER

To all retailers purchasing between October 1st and 31st a direct parcel value £5 or over of C. E. Fulford products, and making a prominent window/counter display of them, we offer:-

**EITHER
AN EXTRA
5%
DISCOUNT**

over and above our present very profitable display parcel terms

**OR
1,000
BOTTLE WRAPPERS
FREE**

size 10" x 10" advertising Bile Beans or Zam-Buk, plus 200 more wrappers for every £1 value over £5

HERE ARE THE FULFORD LEADERS

Bile Beans Laxative Plus

Large-space, reinforced advertising in National and Sunday newspapers and Women's magazines will increase public demand by leaps and bounds.



Peps

The world-famous, fast-selling throat and chest tablets supported by National advertising throughout the winter season.

Zam-Buk

The ointment that is selling faster than ever. Heavily and regularly advertised in the National and Sunday press. Zam-Buk non-greasy Medicinal Cream, Suppositories, Zamcones etc. also qualify for bonus.



ORDER NOW—

LINK UP BY DISPLAY WITH OUR
BIGGER, FORCEFUL ADVERTISING—
FOR QUICK TURNOVER, HANDSOME
PROFIT, PLUS EXTRA BONUS.

C. E. FULFORD LTD., CARLTON HILL, LEEDS 2.

BONUS OFFER!

NOW
2/6
RETAIL

Trade Price
13/- doz.
plus 75%
purchase tax

Creme Shalimar

A bonus of 13 to the dozen (including purchase tax paid on the extra tube) on all orders of two dozen and over received in October and November, 1953.

★ **Attractive NEW**
show material
supplied with all
orders!

THE DUBARRY PERFUMERY CO. LTD.

GOLDSTONE LABORATORIES, HOVE 4, SUSSEX

If you have a
Customer
who shaves

...**SELL HIM AN**

Allegro

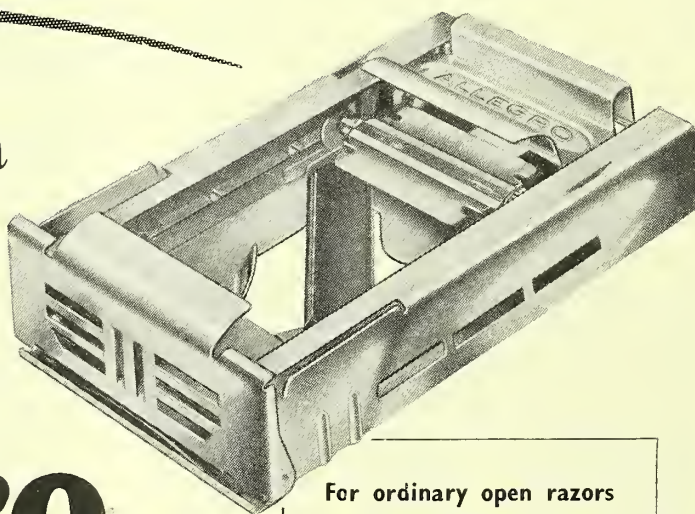
Switzerland

RAZOR BLADE PERFECTOR

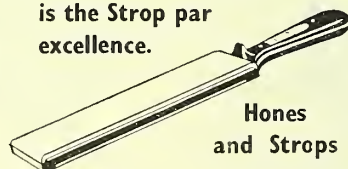
Not just another honer—The Allegro perfects the edge of even new blades. The Allegro sells the luxury of a perfect blade for every shave. Attractively finished and smartly boxed. *As advertised in large circulation men's magazines*

Prices 32/- and 43/7 (including P.T.) Subject to full Trade Discounts.

Sole Distributors: **CONDRUP LTD., 67-73 Worship Street, E.C.2**



For ordinary open razors
The
Allegro FLEXIBLE
is the Strop par
excellence.



Hones
and Strops

Prices: 17/8 to 34/10 each.
Including P.T.

It's a PLEASURE !

Pleasure in wearing Overalls? Why of course! . . . you should see Gardiner's super selection. All of their Overalls are fully-shrunk and skilfully finished in the best quality drill or rayon materials. They look smart all day long—they wear well—they wash well. If you are unable to call, please write stating your requirements, enclosing 1/- extra for postage and packing. Bulk orders are specially quoted for.

Illustrated on the left is the Button Front style in super quality drill. Available in fast colours : Mid-Green, Celestial Blue, Sail Red, Fuchsia Pink, Beige, Royal Blue, Grey and Navy. SW 26/-, W and WX 28/-, OS and XOS 30/5. Also in White. SW 22/6, W and WX 25/-, OS and XOS 27/6. Also available from stock are Men's White or Khaki Drill Long Coats, 26/6. White or Grey Drill Jackets 20/-, Navy, Khaki or Tan Drill Jackets 21/-. R.A.F. Style Boiler Suits, Navy, Khaki, Tan or White 37/6.

Many other styles in stock. Write for latest price list



1, 3 & 5 Commercial Road,
London, E.1.

(Opp. Aldgate East Station)
Tel. : BISHopgate 6751/3

Gardiner's
THE OVERALL SPECIALISTS

*Sleep
Sweeter*
BOURNVITA

Made by
CADBURY

*New!
for Babies*

*and
selling fast!*

it's

Rosena



**Rose Hip AND
Orange AND
Extra Glucose--
in ONE Syrup!**

For the first time Rose Hip syrup, pure Orange Juice and extra Glucose have been combined in one delicious blend—ROSENA.



PATA

Made by the makers of Ribena, it is—

- ★ Rich in Vitamin C—not less than 56 mgms. per fluid oz.
- ★ Contains EXTRA Glucose with cane sugar and fruit sugar.
- ★ Sweetly blended to appeal especially to babies and young children.
- ★ Can be taken neat or diluted.
- ★ Does not cause stomach or bowel troubles.
- ★ Fully supported by national advertising in women's magazines, doctors' and nurses' papers and attractive display material.

A Chemists only Line

ORDER NOW!

**Rosena is another winner from
Carter's of Coleford, Glos.**

Promote Sales With



Attractive Sales Aids are Available

**LUXAN LTD., 4 CHEPSTOW ST.,
MANCHESTER, 1**

London: 1 Crown Court, Cheapside, E.C.2

**15,000,000 WOMEN
WILL SEE THIS ADVERTISING**

Increased advertising in all the women's weekly and monthly publications is increasing the persistent demand for these Adelaide Grey Proprietaries. Order a stock today.

APPROVED BY THE MEDICAL PROFESSION



**WAX-A-WAY & COOLWAX
DEPILATORIES**

'Laleek' Wax-a-Way recommended for facial treatment is definitely the most satisfactory Wax Depilatory marketed today. It now retails at 7/9 incl. Tax. 'Laleek' Coolwax is for use on the arms and legs. Economical to use and most effective. Retail at 5/2 incl. Tax. Both depilatories are harmless to the most sensitive skin.

**LONGLASH & EYE
COSMETIC**

Adelaide Grey's 'Laleek' LONGLASH, famous for years as the leading line in the field, retails at 1/11. 'Laleek' Eye Cosmetic attractively packed in its new round container complete with brush, retail 4/1 is rapidly growing in popularity.



BEAUTY PREPARATIONS

ADELAIDE GREY LTD., 30, OLD BOND ST., LONDON, W.1 Tel. REG. 5825

WORLD'S FASTEST SHAVER IS WORLD'S QUICKEST SELLER

The amazing REMINGTON 60 makes Shaving history— breaks Shaver Sales records

THE moment the all-new Remington 60 Electric Shaver was announced its success was assured. Its unique design and brilliant performance made an instant appeal to the shaving public and trade alike.

Enthusiastic dealers all over the country who have wisely linked up with the

Remington national advertising campaign by giving free demonstrations and special window and counter displays are getting their share of profitable business.

An impressive range of display material, free blocks for advertisements and a 50/50 dealer advertising scheme are yours

for the asking.

With the advent of the Christmas season, the Remington 60 in its handsome leather-finish case will be the favourite gift for men of all ages. The demand is likely to be enormous. See that your stock is adequate. **ORDER NOW!**

NON-STOP NATIONAL ADVERTISING

The biggest ever Remington 60 national advertising campaign is being maintained in these big-circulation newspapers and magazines:

Daily Express
Daily Herald
Daily Mail
News Chronicle
Evening News
Evening Standard
The Star
Sunday Express
Sunday Dispatch
The People
News of the World

Radio Times
Picture Post
Illustrated
John Bull
Everybody's
Punch
Reader's Digest
Lilliput
Men Only
Reveille
Weekend Mail



Write NOW for full details of the Remington 60 campaign to
REMINGTON RAND LTD, SHAVER DIVISION
1-19 NEW OXFORD STREET, LONDON, W.C.1

SHOW! DEMONSTRATE!! AND SELL!!!

The Symbol of  Quality & Service

GRAESSER SALICYLATES LTD

SPECIALISTS IN THE MANUFACTURE OF

ASPIRIN SALICYLATES
and **ALLIED PRODUCTS**

Kindly Note . . .

OUR RANGE NOW INCLUDES

SALICYLAMIDE

SANDYCROFT
NR. CHESTER

Telephone:
HAWARDEN 2125

Telegrams:
QUALITY CHESTER



HOME TRADE

JKL

EXPORT

MANNA FLAKES

MANNITE

PAPAIN

ORRIS ROOT

and all other Botanicals, Gums,
Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Wall 4882, 6585 (3 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK · HAMBURG



FILTER PAPERS

Made by
EVANS, ADLARD & CO. LTD.

**THE FINEST FILTER PAPERS
FOR THE MANUFACTURING CHEMIST**

Enquiries and orders For "Postlip" Papers should be
addressed to our Sales Representatives.

TECHNICAL PAPER SALES LTD.

9 Bridewell Place, London, E.C.4

Tel. CENTral 9833



PREPARED WHEAT GERM

A RICH NATURAL SOURCE OF
VITAMINS B and E

TWO SIZES 1/9 or 3/-

Trade 16/- doz. or 27/- doz. FREE NON-RETURNABLE CARTONS

From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS LTD.

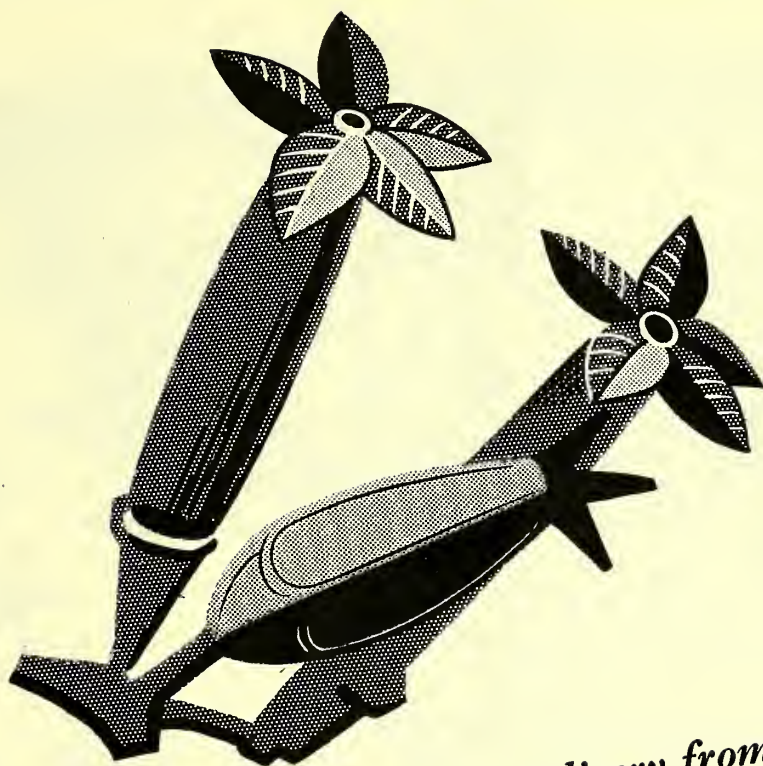
CARLISLE

TANNIC ACID

AND DERIVATIVES

THE BRITISH DYEWOOD COMPANY LIMITED

19 St. VINCENT PLACE GLASGOW, C 1



You can have immediate delivery from Whiffens

QUININE SALTS

Sulphate, Hydrochloride, Dihydrochloride
Hydrobromide, Dihydrobromide, Ethyl Carbonate
and others

WHIFFENS



suppliers of fine chemicals since 1854

WHIFFEN & SONS LTD., NORTH WEST HOUSE, MARYLEBONE ROAD, LONDON, N.W.1

Telephone: PAddington 1041/6 Telegrams: Whiffen, Norwest, London

Millions selling for ... YOU ...

Children can ... Safely sleep
ORIGINAL GENUINE
SUBA-SEAL
Patented Hot Water Bottle
... with the closure that
safely seals by suction.
Dear Mother, SUBA-SEAL has invented for you a family of novelties, which not only make fascinating fun in the bath, but "cuddly" to keep them safe, warm, and comfy, in the of Nod. See the full range at your Chemist or Hardware shop.

DESIGN FOR WARMTH
You get a hot water bottle
SUBA-SEAL advantages,
lowest possible price.
It's only natural that **SUBA-SEAL** BOTTLES which have been specially designed for maximum comfort and safety.

Turn on the heat!
Joyous **SUBA-SEAL** bed-time warmth
Luxurious, comfy, sleep awaits you when **SUBA-SEAL** HOT WATER BOTTLES radiate their joyous warmth. Carefully scientifically designed, these much-lounged-after bottles can be seen at your chemist or hardware store in a range of models and colours.
"STREAMLINE" — Ribbon-like, additional retention for longer heat retention.

You get a hot water bottle
SUBA-SEAL advantages,
lowest possible price.
It's only natural that **SUBA-SEAL** BOTTLES which have been specially designed for maximum comfort and safety.

throughout GREAT BRITAIN!

ASK TO SEE THE **SUBA-SEAL** BOTTLES
ALL MADE BY **SUBA-SEAL**
HOUSEHOLD WARE IN
ALL MADE BY WM. FREEMAN & CO.

ASK TO SEE THE **SUBA-SEAL** BOTTLES
ALL MADE BY **SUBA-SEAL**
HOUSEHOLD WARE IN RUBBER
ALL MADE BY WM. FREEMAN & CO. LTD., BARNSELY, YORKS.

In hundreds of newspapers that will be read by housewives from every part of Great Britain are these powerful selling advertisements. They will be running throughout October, November and December, creating millions of sales that you **must** cash in on. Order your stocks **TODAY!**

ORIGINAL REGISTERED GENUINE
SUBA-SEAL
TRADE MARK

Patented HOT WATER BOTTLES with the closure that safely seals by suction.

Write to ...

WILLIAM FREEMAN
& COMPANY LIMITED

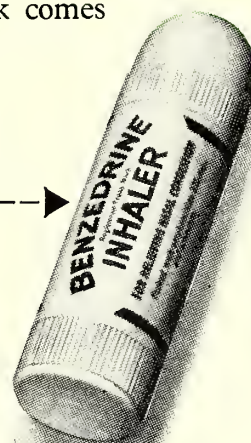
SUBA-SEAL WORKS, PEEL ST., BARNSELY, YORKS.
Telephone: Barnsley 4081 **PATA** Telegrams: SUBA-SEAL BARNSELY

ALWAYS BUY 'BENZEDRINE' INHALER IN 'DISPLAY DOZENS'

You not only get an attractive and compact display pack to help you increase your turnover, but each display pack comes

with one inhaler extra

so that you get
two shillings extra profit
straight away



Trade Price 18/- per
'display dozen'
Retail price 2/- each
From your usual supplier

MENLEY & JAMES, LIMITED

COLDHARBOUR LANE, LONDON, S.E.5

for Smith Kline & French International Co.,

owner of the trade mark 'Benzedrine'

NEW HORIZONS...



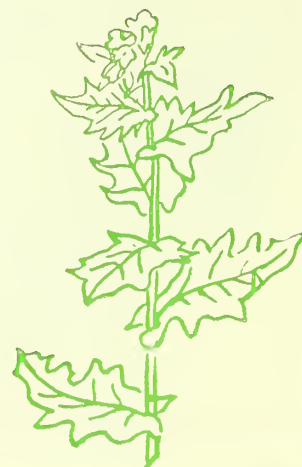
One of Ransom's fields of Henbane Plants

A corner of the main drug-drying room in Ransom's factory

. . . in drug growing

THE cultivation of medicinal plants is a yeoman industry that has more than weathered the passing years. It has, in recent years, assumed undreamed-of dimensions, despite the increase in the use of synthetic drugs. To meet this expanding demand for vegetable drugs and galenicals Ransoms have acquired additional farmlands at St. Ives, Huntingdon, with which to augment the capacity of their well-known drug-growing fields at Hitchin. With their century of experience Ransoms now hold a position in the drug-growing industry which is second to none—the name Ransom having become synonymous with drugs and galenicals of unsurpassed quality the world over.

Actual growers of belladonna, henbane, foxglove, chamomile, peppermint and lavender.



ESTABLISHED 1846



WILLIAM RANSOM & SON LTD.
Hitchin Hertfordshire England

HARKER STAGG LIMITED

makers of

BULK GALENICALS

for 133 years

*can quote
most interesting prices*

*Will Wholesalers please note that we are now in a position to
offer low contract rates and invite their enquiries for:—*

Acetum Scillae.
Conspers Zinc Ox. et Amyli Co.
Cremor Zinc et Ol. Ricini.
Ext. Glycyrrh. Liq.
Gel. Alumin. Hydrox.
Glycer. Thymol Co.
Infus. Buchu Conc.
Infus. Gent. Co. Conc.
Linctus Scillae Opiat.
Linctus Scillae pro Infans.
Lin. Album.
Liq. Iodi Mit.
Lotio Calamin.
Lotio Calamin. Oleas.
Mist. Magnes. Hydrox.
Oxymel Scillae.

Pulv. Mag. Trisil. Co.
Spt. Ammon. Co.
Syrup Ferri Phosph. Co.
Syrup Pruni Serot.
Syrup Scillae.
Tinct. Belladonna.
Tinct. Benz. Co.
Tinct. Chlor. et Morph.
Tinct. Hyoscyam.
Tinct. Ipecac.
Tinct. Nucis Vom.
Tinct. Rhei Co.
Tinct. Opii Camph.
Ung. Acid Boric.
Ung. Zinc Oxide.
Spt. Chloroform.

**HARKER STAGG LIMITED****EMMOTT STREET, LONDON, E.1**

Telephone : STEpney Green 2022.

Enquiries invited for—

**ASPIRIN and
ASPIRIN TABLETS**

BARBITURATES

QUINALBARBITONE SODIUM, CYCLOBARBITONE,
PHEMITONE, BUTOBARBITONE, AMYLOBARBITONE,
HEXOBARBITONE, ALLOBARBITONE, PHENOBARBITONE,
METHYLPHENOBARBITONE, ETC., ETC.

Manufactured by

PIERSON, MORRELL & CO. LTD.

THE ORIGINAL BRITISH ASPIRIN MAKERS

BARNET, Herts.

Telegrams: Pierson Morrell Barnet

Telephone: BARnet 0723

**A REALLY
CONVENIENT
PACK 1/6**

PER SCREW LID TIN

NO MORE PRISING OFF LIDS
WITH A THREEPENNY BIT OR
FINGER NAILS!



Jelly Hand Cleansers are
rapidly coming into regular
use—sell the best and most
attractively packed of all

EVERYONE NEEDS SWARFEGA

The finest jelly hand
cleanser on the market

ORDER NOW and be sure to ask for the
NEW PACK

Enquiries through usual trade
channels or direct to—

DEB CHEMICAL PROPRIETARIES LTD.

SPENCER ROAD, BELPER, DERBYS. Tel.: 278



*We invite your
enquiries and orders for*

**Drugs, Galenicals,
B.P., B.P.C., N.F. Preparations, Tablets,
Pills, Ointments, Capsules,
Chemists' and Druggists' Sundries,
Surgical Dressings, Plasters,
Appliances, Ethicals, Patents and
Toilet Preparations** at competitive prices

A Comprehensive Service for the Pharmacist

**BIOREX
LABORATORIES LTD.**

WHOLESALE AND MANUFACTURING CHEMISTS
47-51 EXMOUTH STREET, LONDON, E.C.1
Telephone: TERminus 9494-1431

*Daily delivery service in
the Greater London Area*

MACLEANS announce

A NEW INDIGESTION TREATMENT WITH ALUMINIUM GLYCINATE



**A new and superior
"buffering" antacid
in tablet form**

Macleans now introduce New Macleans Tablets with Aluminium Glycinate.

Aluminium Glycinate, produced in the Macleans laboratories, is the ideal dry form of Aluminium gel. It makes possible this tableted form of the new Aluminium "buffers" which may be sucked continuously in accordance with the latest medical opinions on indigestion therapy.

Until 15th Nov. — special bonus parcels!

Special bonus parcels are available until 15th November. These give you the opportunity of stocking up on this new product on highly advantageous terms — up to 74% margin on cost!

Bonus parcel "A"	Bonus Terms Per doz.	Cash Profit Per doz.
2 doz. 1/3 roll packs	7/3	5/4 $\frac{3}{4}$
1 doz. 3/6 carton packs	20/3	15/1 $\frac{1}{2}$
TOTAL PROFIT ON PARCEL £1/5/11		

Bonus parcel "B"	Bonus Terms Per doz.	Cash Profit Per doz.
2 doz. 3/6 carton packs	20/3	15/1 $\frac{1}{2}$
TOTAL PROFIT ON PARCEL £1/10/3		

Bonus parcel "C"	Bonus Terms Per doz.	Cash Profit Per doz.
4 doz. 1/3 roll packs	7/3	5/4 $\frac{3}{4}$
TOTAL PROFIT ON PARCEL £1/1/7		

The "buffering" efficiency of Aluminium Glycinate is superior to that which can be obtained from an equivalent weight of any other dry form of Aluminium gel.

In addition New Macleans Tablets contain a proportion of Macleans Carbonates to ensure rapid reduction of excess acid. These fortify the action of Aluminium Glycinate to give a rapid-acting tablet without risk of alkalosis or acid rebound.

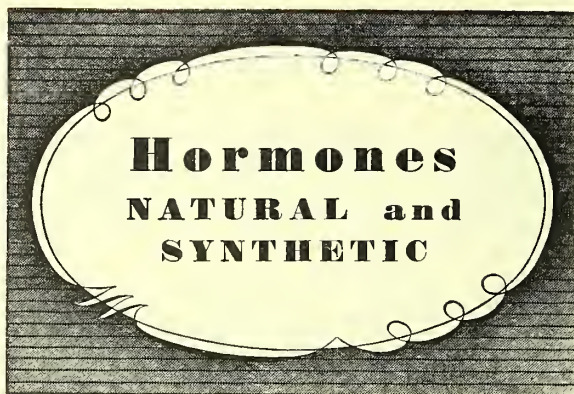
You may therefore recommend New Macleans Tablets with confidence to sufferers from acid indigestion.

To explain the action of Aluminium Glycinate to the layman, we are using the phrase "follow-through protection" in extensive press advertising.

Normal Trade Terms

	TWIST- WRAPPED	ROLL PACK
Retail Selling Prices	3/6	1/3
Price per dozen	42/-	15/-
Standard	26/6	9/5
Intermediate	25/1	8/11
Best	24/3	8/8
Display	23/7	8/5
Purchase Tax per dozen	6/7 $\frac{1}{2}$	2/4 $\frac{1}{4}$

Macleans Ltd., Manufacturing Chemists, Great West Road, Brentford, Middlesex. EALING 6616



FOR ORAL OR SUB-LINGUAL
ADMINISTRATION

(OXOID) STILBOESTROL

(OXOID) DIENOESTROL

(OXOID) OESTRIN

**(OXOID) ETHINYL
OESTRADIOL**

(OXOID) ETHISTERONE

**(OXOID) METHYL
TESTOSTERONE**

FOR INJECTION

**(OXOID) OESTRIN
STILBOESTROL**

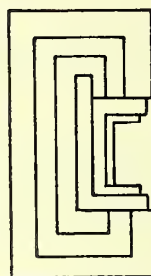
(OXOID) DIPROPIONATE

(OXOID) PROGESTERONE

**(OXOID) TESTOSTERONE
PROPIONATE**

LITERATURE GLADLY FORWARDED UPON REQUEST

OXO LIMITED (Medical Dept.)
Thames House, Queen Street Place,
London, E. C. 4. Phone: Central 9781



bismuth

in the treatment of
**GASTRITIS
HYPERCHLORHYDRIA
PEPTIC ULCER**

ensures

**neutralization of Acidity
rapid Symptomatic relief
protective coating on Ulcer
rapid healing of Mucosa**

*Illustrated literature on
BISMUTH THERAPY
available from*

BISMUTH RESEARCH DEPARTMENT
MINING & CHEMICAL PRODUCTS LTD.
86 STRAND, LONDON, W.C.2

For an unusually efficient service
in the supply of all Patents, Ethical
Proprietarys, Drugs, Galenicals
and sundries.

We deliver regularly to pharmacists
in South Yorkshire, Nottinghamshire
and Derbyshire.

SMITH & HILL
(CHEMISTS) LTD.
SIDNEY ST., SHEFFIELD, 1.
Telephone : 28383 (5 lines)

Now made in England!

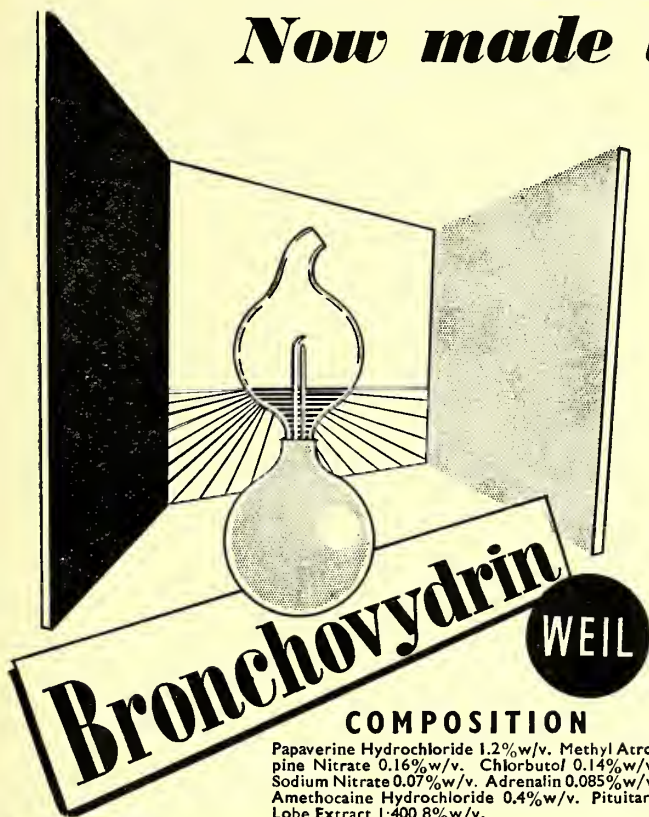
DR. WEIL'S ORIGINAL TREATMENT for ASTHMA

Pre-dominant among Inhalants prescribed by British Physicians before the war, Bronchovydrin was prepared solely in the Laboratories of Dr. Weil on the Continent. Arrangements have now been concluded for its manufacture also in England.

Full particulars of packings and prices gladly sent on application.

Sole Agents for the United Kingdom
**WILLIAM MARTINDALE
WHOLESALE LTD.**

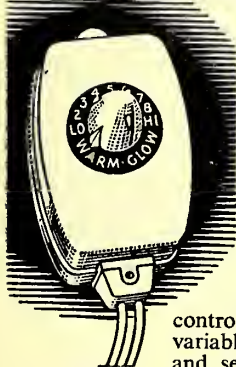
14-16 Bruton Place, New Bond Street
London, W.1 Tel: MAYfair 7811



COMPOSITION

Papaverine Hydrochloride 1.2% w/v. Methyl Acropine Nitrate 0.16% w/v. Chlorbutol 0.14% w/v. Sodium Nitrate 0.07% w/v. Adrenalin 0.085% w/v. Amethocaine Hydrochloride 0.4% w/v. Pituitary Lobe Extract 1:400 8% w/v.

WARM-GLOW *Go Ahead*



and now occupy entirely new factory four times larger than before. This means bigger production and speedier deliveries. Now is your opportunity to create goodwill with your customers. STOCK and SELL WARM-GLOW.

VIGILUX Electric BLANKET

Pat. No. 671239
with FINGER-TIP
BEDSIDE CONTROL

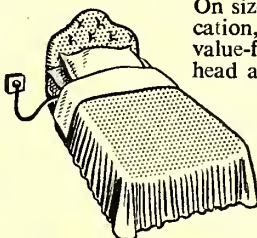
The only Blanket control which is infinitely variable, self-compensating and sensitive to bed and body temperatures.

★ The VIGILUX (Regd.) has all the luxury features of the Warm-Glow single-heat Blanket—plus finger-tip bedside temperature control, and many other refinements. The full size woollen blanket is part of the bed-clothes and is not removed before retiring. Waterproof element and first class workmanship gives it a higher safety factor than any other blanket on the market. Shock-proof and washable.

WARM-GLOW Single Heat ELECTRIC BLANKET

★ WARM-GLOW were first to introduce natural dissipation control in 1934 and full size fleecy wool blankets in attractive pastel colours. In 1948 we were again first with the waterproof element

On size and specification, Warm-Glow value-for-money is head and shoulders above all competitors.



WARM-GLOW SOIL HEATERS

give reliable service with complete safety

They are of inestimable value to both amateur and professional gardeners. The price is less than half of any competitor. Designed for use in the standard cold frame but easily adapted to other sizes. Notable economy in greenhouses. Popular with all classes of gardeners.



ASK YOUR WHOLESALE FOR FURTHER DETAILS OR WRITE TO DEPT. C3.

The WARM-GLOW CO. LTD. • LEIGH-ON-SEA • ESSEX • ENG.
Telephone • EASTWOOD 55742 Telegrams • WARMGLOW • LEIGH-ON-SEA

'SURCO'**SURGICAL ELASTIC
HOSIERY****SEAMED, SEAMLESS
TWO-WAY STRETCH
ELASTIC NET****SURGICAL BELTS
TRUSSES AND SUNDRIES***Over 60 years' service of everything surgical***SURGICAL HOSIERY CO., LTD.****Russell Street, NOTTINGHAM**

Telephone No. 75903

Telegrams: Surgical Notts

**Gosheron TAPES**

seal them

SPEEDILY**SECURELY****ATTRACTIVELY**Let us help you solve your
own sealing problem

JOHN GOSHERON & CO LTD GAYFORD ROAD LONDON W12

ZULO**CARBOY HAMPERS****LEIGH
& SONS
METAL
WORKS LTD**CARBOYS
PACKED CARBOYS
CARBOY TILERS
AND BARROWS
SAFETY CRATES
TOP PROTECTORS**ORLANDO STREET, BOLTON**

TELEPHONE: BOLTON 312

'Harley' Quality Products*'Harley'*SELLS AT 10½d.
FOR THE ROLL
AND 9d. FOR
THE FLAT
PACK.

Manufactured by

HAROLD WESLEY

HARLEY MILLS

LONDON, N.W.10

"RODINE"
THE RAPID RAT REMOVER**Always in demand!**

THOMAS HARLEY LTD., PERTH, SCOTLAND

BOTTLE CAPS and RINGSWAGNER'S
DRY AUTOMATIC
Best in quality
and appearance

PROMPT DELIVERIES

R. V. WAGNERBushey Hall Garage, Bushey Hall Road
Watford, Herts**dott. INVERNI & DELLA BEFFA****99, Via RIPAMONTI-MILAN (ITALY)***Samples and quotations on request*

MANUFACTURERS OF

L-ASPARAGIN**Colchicin U.S.P. Male Fern Extract**

You keep customers—if you keep

NUCTA OIL

THE SOAPLESS OIL SHAMPOO

**Recommended for its
scalp penetrating action.**

AVAILABLE FOR COUNTER SALE

In 4 oz. size selling at 2/7½
(18/- per doz. plus tax)

In 8 oz. size selling at 4/1
(28/- per doz. plus tax)

ALSO FULL RANGE OF
TOILET SPECIALTIES

VIOLET OIL

HAND LOTION

AFTER SHAVING
LOTION, Etc.



OBTAINABLE FROM YOUR USUAL WHOLESALER

Manufactured by :

STEWART, GOODALL & DUNLOP LTD.

121A PRINCES STREET — EDINBURGH

WE WANT

MILLAMALT

Sole Manufacturers :

JEFFREYS, MILLER & CO. LTD., Leyland Mills,
Wigan. (London Department 19 Brookside Rd. N.)

BECAUSE OF THE BUTTERSCOTCH FLAVOUR



**"ROADMASTER"
NIGHTDRIVING GLASSES**

—The new accessory that
every Motorist wants !

Manufacturers : **FISH OPTICAL CO. LTD.**★
McNeish House, 261 HARROW ROAD, LONDON, W.2
Tel. : CUNNINGHAM 8318 & 8267

★ Makers of the world-famous 'SUNGARD' Sunglasses

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils
in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% Rectified B.P.
Oil Euc. Dives 40/45%
Phellandrene

70/75% Rectified B.P.
Piperitone 90/95%
Oil Euc. Phellandra

UNIFORMITY OF QUALITY · CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD.**, 15 Philpot LANE, LONDON, E.C.3

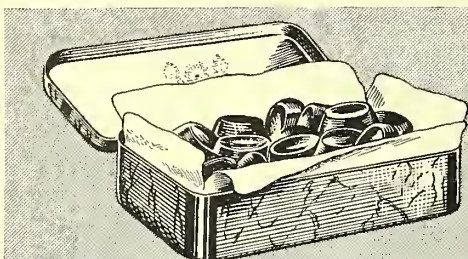
Phone : MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

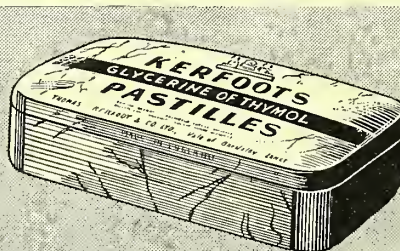
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KERFOOT'S *pastilles*

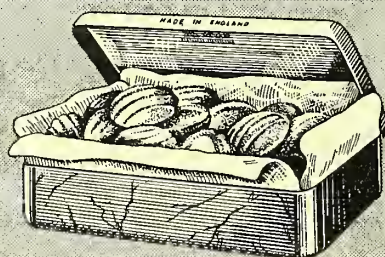
ANTISEPTIC THROAT



GLYCERINE OF THYMOL



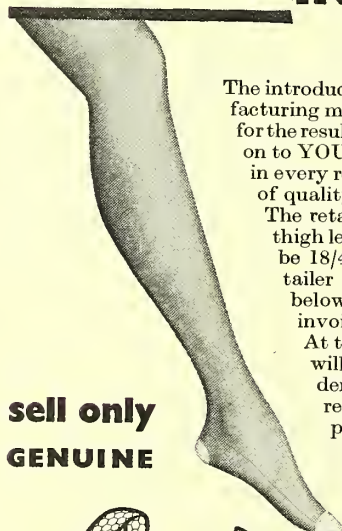
MENTHOL & EUCALYPTUS



CATARRH

THOMAS KERFOOT & CO. LTD.
VALE OF BARDSLEY · LANCS

Q4

**Your discount now
INCREASED****sell only
GENUINE**

The introduction of improved manufacturing methods makes it possible for the resultant benefits to be passed on to YOU, whilst yet maintaining in every respect our high standard of quality.

The retail price of the Lastonet thigh length stockings will now be 18/4d each, invoicing to retailer at 12/3d; and that for below knee length 14/8d each, invoicing at 9/9d.

At the new retail prices you will find Lastonet in greater demand than ever returning to you increased profit on every sale.

Lastonet

the original elastic net stocking
ALWAYS MADE TO MEASURE
the stocking with six months' guarantee

LASTONET PRODUCTS LTD · CARN BREA · REDRUTH · CORNWALL

IMPORTANT ANNOUNCEMENT ·

FEEDRITE LIMITED wish to inform the Trade that owing to increased labour and raw material prices we are forced to increase the price of the Feedrite Wonder Baby Feeder to the public to 5/9d. as and from the 12th October, 1953. Will you, therefore, increase your selling price on that date to 5/9d. Price tickets for the new price are available, on request, for use with our showcards. All National advertising from the 12th October onwards will show the new price. Prices of all other Feedrite products are unchanged, and are as under:—

Product

Prices for

	PUBLIC	CHEMIST
FEEDRITE BABY FEEDER (Complete with Feedrite Bottle, Anti-colic Teat, Thermal Heat Retaining Pads and Plastic Container).	5/9d. complete	51/9d. per doz.
FEEDRITE SPARE BOTTLES	1/3d. each	11/3d. per doz.
FEEDRITE SPARE THERMAL HEAT RETAINING PAD SETS	1/3d. per set	11/3d. per doz. sets
FEEDRITE ANTI-COLIC TEATS (Cherry, Straight or Almond).	7½d. each	67/6d. per gross
FEEDRITE RUBBER BOTTLE STOPPERS	7½d. each	67/6d. per gross
FEEDRITE THERMOMETERS Half-minute Stubby—Individually packed in metal cases.	4/6d. each	36/- per doz.

Attractive show material and Explanatory Leaflets are available on request. ●

FEEDRITE LTD
PROGRESS HOUSE, 300 KINGSTON ROAD,
MERTON PARK, LONDON, S.W.20 Tel: LIBERTY 3443/4

For Fast Turn - Over - Quick Profits

DISPLAY KLEENEX



DISPLAY KLEENEX prominently on your shelves, on your counters, in your windows AND the sky's the limit in profits for you! We're backing Kleenex to the full with hard-selling ads. in national newspapers, national magazines and women's magazines with a total circulation of 42,341,000! And this outstanding campaign is selling for you **RIGHT AT THE PEAK OF THE "COLDS" SEASON!**

Kleenex* is easy to sell—to sell on sight! So keep plenty of Kleenex in sight—benefit as sales soar—get your share of the mounting profits!

*Kleenex is soft! Strong! The only tissue handkerchief that "pops up one-at-a-time!"

RETAIL PRICES:

1/-, also 2/-, and the "Family Box" at 2/9

KOTEX AND DELSEY TOO!

Don't forget you can include Kotex and Delsey along with Kleenex in the **5 CASE DEAL**. This gives you a **5% discount**.

ORDER THROUGH YOUR WHOLESALE TODAY!

Made in England by Cellucotton Products Ltd., Carkers Lane, London, N.W.5

*Reg. T.M.

IN PHARMACY
AND MEDICINE

Renowned in five reigns

To-day
— as half a century ago

RETAIL 1s. 0½d.
PER TABLETUsual
Trade Terms

"...incomparably the best soap we have ever used!"*



SUPERFATTED—addition of oils and fats to counteract all free caustic alkali, and milled with oils.

BAUMOL SOAP gives protection to the sensitive skin by preserving its natural oils and fats.

BAUMOL SOAP

* *Edinburgh Medical Journal when BAUMOL SOAP was first introduced*

DUNCAN, FLOCKHART & CO. LTD.,

EDINBURGH.
104-8 Holyrood Road, 8

LONDON.

155-7 Farringdon Road, E.C.1

NEW DESIGN CHRISTMAS WRAPPING PAPER

CARRIER BAGS

Samples & prices on application to :-

COLOROLL LTD.
72 TOTTENHAM COURT ROAD,
LONDON, W.1

MUSEUM 0655

There's no 'off-season' for



BOX'S

INDIGESTION PILLS

The Old Established
Family Remedy

P.A.T.A. Retail Prices:

1/5, 3/4, 5/5, 13/4, 24/2 (incl. tax)

W. H. BOX, 161 KING STREET, PLYMOUTH



Frank
MACOWAL
& YANATAS
Ltd.

MANUFACTURING CHEMISTS
ESTABLISHED 1894

Offer their services for the
manufacture to your formulae and
particular requirements, packaging
and despatch of:—

**COSMETIC, TOILET,
PHARMACEUTICAL &
HOUSEHOLD PREPARATIONS**

All enquiries treated as strictly confidential.

WILLSHAW STREET • LONDON • S.E.14

Phone: TtDeway 3846

"KWICKDRY"

HOUSEHOLD CREPE PAPER TOWELS

IN PERFORATED ROLLS
FOR THE MODERN HOUSEWIFE

THEY SAVE WORK
and DRUDGERY and
ARE STRONGER
WHEN WET.

They serve a multi-
tude of purposes. Of
a soft, pleasing, crepe
texture "KWICK-
DRY" TOWELS are
very absorbent, can
be squeezed like a
cloth yet do not dis-
integrate.

FOR DRYING HANDS
DRAINING FRIED FOOD
CLEANING POTS & PANS, etc.

"THE TOWEL THAT REALLY DRIES—AS THE NAME IMPLIES"

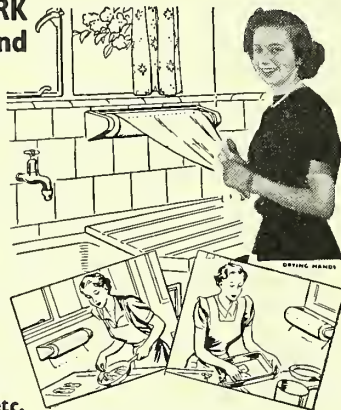
Wire Towel Holders supplied if required

This NEW habit is catching on! Are you cashing in?
Samples and prices from the Paper Specialists:—

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN : ENFIELD : MIDDLESEX

Telephone: HOWard 1847 (5 lines).

*Grams: Sylkocrepe, Enfield



AN ALL COTTON WOOL PRODUCT
OF REPUTE

Consolux

Patent No. 410702
(Registered)

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPED ENDS
NON - ABSORBENT BACK

WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.

SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

GOING GREY?

Keep it
DARK with
SHADEINE

—Your SALES are assured if
you stock SHADEINE!

Still the best hair tint. In all natural shades.
Stocked by all wholesalers. Trade prices—1 oz.
18/- per doz., 2 oz. 29/7 per doz. Purchase Tax
75%. Retail Prices 3/1½ and 5/2 per bottle
respectively. Also the new GOLDEN SHADEINE
for lightening mousey hair. 2 oz. 18/- per doz.,
Purchase Tax 75%. Retail Price 3/1½ per bottle.



THE SHADEINE COMPANY
49 Churchfield Rd., Acton, London, W.3.

J.M.S

METHYLENE CHLORIDE

MALEIC ACID

FUMARIC ACID

Write Dept. Q/4 for sample and quotation

J. M. STEEL & CO. LTD.
36/38 KINGSWAY, LONDON, W.C.2. Tel: HOLborn 253215

Branch Offices
51 SOUTH KING ST., MANCHESTER 2 (Tel: Deansgate 4677/9)
45 NEWHALL ST., BIRMINGHAM 3 (Tel: Centrol 6142/3)

CORK LINED SLEEVES

CORRUGATED PULL-THROUGH BOXES

Compressed Paper Packing Limited
Horton Road - West Drayton - Middlesex

Telephone: WEST DRAYTON 2237

*Cannon Quality and variety
help to build your sales !*



Cannon research and progress have built up their world-wide prestige. Quality and variety, the keynote of their products; service and co-operation, the basis of their business. This year, Cannon have introduced the series of Capitol Bathing Caps, yet another addition to their wide range of quality goods, which will again this year be creating world-wide interest and demand. Now is the time to check your Cannon stocks. All products obtainable from your usual wholesaler.

CANNON RUBBER MANUFACTURERS LIMITED

(Dept. CD14) ASHLEY ROAD, TOTTENHAM LONDON N17



MODERN Teats and
Soothers

WELLBORN Teats

EASIFLOW Feeders

MODERN Nurser

MODERN Feeder

CAPITOL Range of
BATHING CAPS

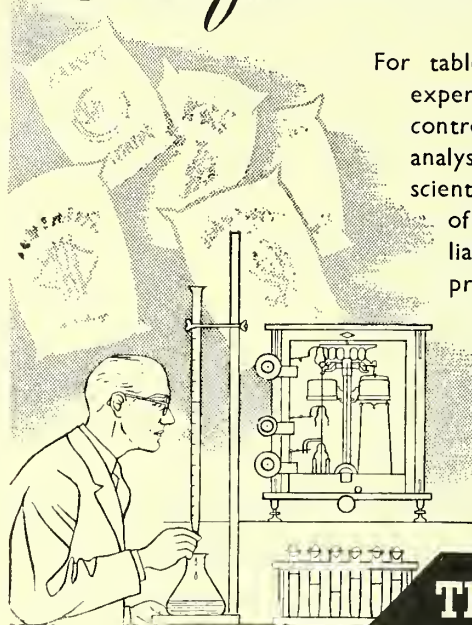
DOLPHIN AND
RIPPLE Hot
Water Bottles

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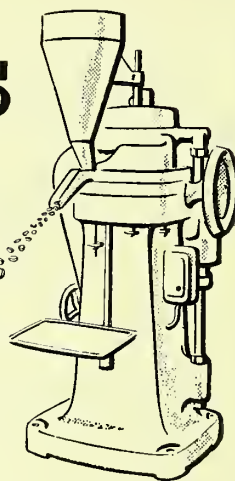
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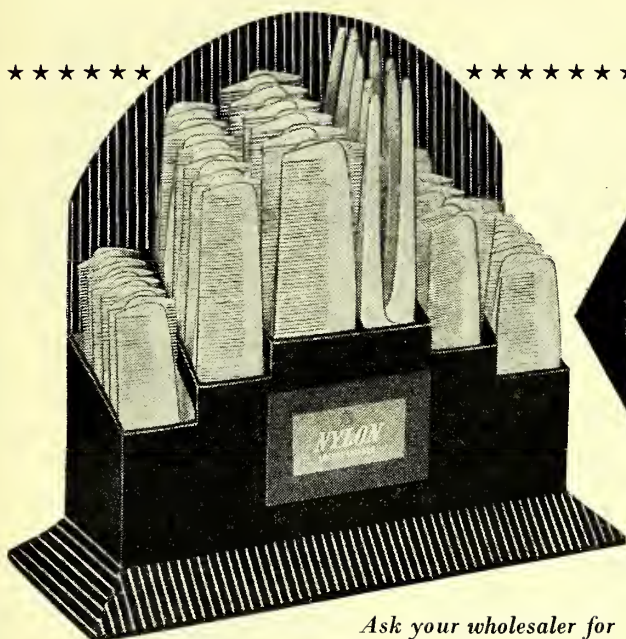
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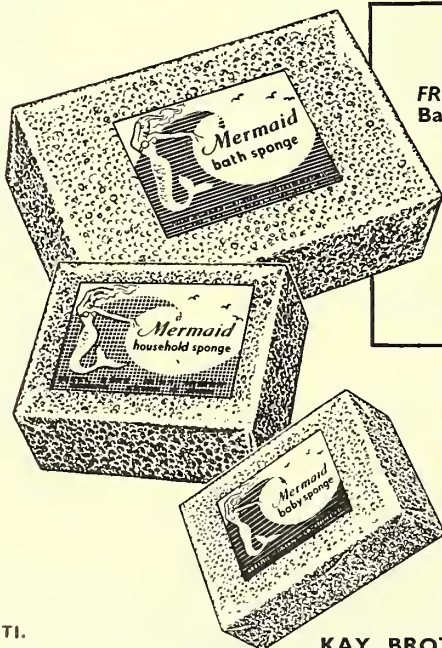
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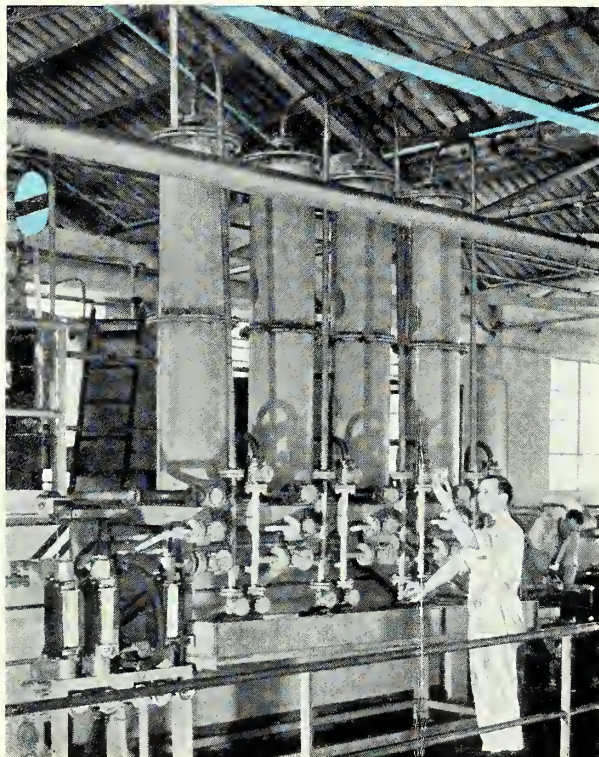
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